Louis Andersen Public Works Director Scott Bender County Engineer







PINAL + COUNTY wide open opportunity

RECEIVED

Arizona Corporation Commission Office of Railroad Safety Attn: Brian Lehman 2200 N. Central Ave., Ste 300 Phoenix, AZ 85004

2014 JUN - 6 P 2: 07

AL CORP COMMISSION DOCKET CONTROL

RE: Application to install over pass crossing and convert existing at grade vehicular pedestrian/equestrian only crossing DOCKETED

Project: Kelvin Bridge Replacement ADOT Tracs # 0000PN PPN SB410 01C Copper Basin Railway MP 987.10 CBRY Hayden Branch Line

JUN 06 2014

New Structure DOT #934315J

Modification of Crossing DOT #742-396E

RR-02636A-14-0181

Mr. Lehman,

DOCNETED MY

This application is being submitted to allow the Copper Basin Railway, through cooperative efforts with Pinal County, to construct a new over pass at the railroad crossing as part of the proposed Kelvin Bridge Replacement Project. Also, because the project relates to the existing bridge, this application is submitted to approve the conversion of the existing at grade vehicular crossing to a pedestrian/equestrian only crossing.

1. Project Location and Description

Location-Far East side of Pinal County approximately 18-20 miles east of Florence along the Florence-Kelvin Highway at the Gila River near the community of River Side. Project is located south of Superior, north of Kearney, and 1 mile west SR 177. As shown on attached map.

Kelvin Bridge Replacement Project will consist of an over pass at the Copper Basin Railway as part of a new bridge for vehicular traffic to be constructed upstream and parallel to the existing 1916 Kelvin Bridge. The proposal for the existing 1916 Kelvin Bridge at grade railroad crossing is to convert this crossing into a pedestrian/equestrian only crossing allowing the separation of the vehicular traffic. It is proposed to remove to the existing crossing signals and install a pedestrian/equestrian maze at this location to assist in safety. As well as installation of a new crossing surface.

2. Why the crossing is needed

The current at grade railroad crossing has inherent safety issues. The crossing has a high volume of pedestrian/equestrian traffic do to the close proximity of the Arizona Trail Head. Pedestrians/Equestrians utilize this crossing along with vehicular traffic. The project will vastly upgrade and improve current crossing conditions.

3. Construction Phasing

Once an opinion and order is issued, it is anticipated the construction of the over pass to be put out to bid by the end of 2014 with construction to begin early 2015. At the completion of the over pass, anticipated by the end of 2015, Copper Basin Railway will acquire and install the Pedestrian/Equestrian Maze, crossing surface, and remove existing crossing signals within a 6 months.

4. Why the proposed or existing crossing can't be grade separated

The project proposes an over pass grade separation.



5. Type of warning devices to be installed

The project proposes an over pass grade separation and a Pedestrian/Equestrian Maze.

6. Maintenance of the crossing

Pinal County will be responsible for installing and maintaining the crossing surface and Pedestrian/Equestrian Maze. Pinal County will also be responsible for maintaining the road approaches outside of Copper Basin Railway responsibility.

7. Project Funding

Kelvin Bridge Replacement Construction w/Over Pass

| Federal-aid funds @ 94.3% | \$ 1,000,000.00 |
|------------------------------------|------------------------|
| Pinal County's match @ 5.7% | \$ 60,445.00 |
| Pinal County's contribution @ 100% | <u>\$ 5,444,955.00</u> |
| Subtotal – Construction | \$ 6,505,400.00 |

| Total Estimated Pinal County Funds | \$5,515,400.00 |
|------------------------------------|----------------|
| Total Federal Funds | \$1,000,000.00 |

TOTAL Estimated Project Costs \$6,515,400.00

1916 Existing Kelvin Bridge - Copper Basin Railway at Grade Crossing Improvements

Pinal County Funded \$ 106,133.79

8. Other Information:

- -Average Daily Traffic Counts of 249.
- -1916 Existing Kelvin Bridge at Grade Crossing currently has crossing signals installed.
- -Copper Basin Railway has 2 daily train movements through this crossing at a speed from 10 to 25 mph with no switching.
- -Kearney School District utilizes the existing crossing as a bus route.

5.29.14

Singerely,

Joe R. Ortiz

Engineering Support Division Head

Pinal County Public Works

31 North Pinal Street, Building F

P.O. Box 727

Florence, AZ 85132

KELVIN BRIDGE REPLACEMENT PROJECT

RAILROAD AGREEMENT

BETWEEN PINAL COUNTY DEPARTMENT OF PUBLIC WORKS

AND

COPPER BASIN RAILWAY

PINAL COUNTY PUBLIC WORKS PROJECT NO. 3111688
ADOT CONSTRUCTION TRACS NO. 0000 PN PPN SB410 01C
ADOT PROJECT NO. BR-PPN-o(169)A
HIGHWAY: FLORENCE-KELVIN HIGHWAY
LOCATION: JAKE BRIDGE OF UNITY
CBRY MP 987.10 ON CB RY Hayden Branch Line
NEW STRUCTURE DOT # 934315J
MODIFICATION OF CROSSING DOT # 742-396E
RAIL MILE 987.10

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| Exhibit A | Summary Of Costs To Be Paid By COUNTY Through This AGREEMENT | |
| Exhibit A-1 | Plan Of Work To Be Completed By CBRY | |
| Exhibit A-2 | Proposed Pedestrian/Equestrian Railroad Crossing Maze | |
| Exhibit B | Plan & Profile Of The STRUCTURE | |
| Exhibit BA | for "Buy America" requirements of 23 CFR 635.410 | |

| THIS AGREEMENT made this | day of, | 20, | between the |
|---|----------------------|--------|----------------|
| COPPER BASIN RAILWAY, Inc. (CBRY), a | C corporation, herei | nafter | called, "CBRY" |
| and PINAL COUNTY, acting by and through | its DEPARTMENT | OF PU | BLIC WORKS, |
| hereinafter referred to as "COUNTY" | | | |

PREAMBLE RECITALS:

- A. CBRYowns and operates a line of railroad known as its Hayden Branch Line in and through the County of Pinal, near the City of Kearny, Arizona.
- B. COUNTY proposes to construct a new Bridge STRUCTURE (as defined below). STRUCTURE will be located near CBRY milepost 987.10 and have an DOT# 934315J. PROJECT will also remove and modify the CROSSING as defined below. The parties hereto desire to express in writing their understanding and agreement with respect to responsibilities for the construction and maintenance of the STRUCTURE and facilities affected by the PROJECT and pursuant to which the connecting roadways and other improvements are to be constructed and maintained.
- C. The plan and profile of the STRUCTURE are marked as **Exhibit B**.
- D. All lettered exhibits are incorporated and made a part of this AGREEMENT by reference and attachment regardless of designation or alphabetical order.

AGREEMENT:

NOW, THEREFORE, IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

ARTICLE I

DEFINITIONS:

- A. AGREEMENT means this specific AGREEMENT with all attached exhibits together with all attachments incorporated by reference.
- B. CONTROLLED ACCESS means locations where owners or occupants of abutting lands and other persons have no legal right of access, e.g., freeway lanes and freeway ramps.
- C. COST ACCUMULATION NUMBER means a unique CBRY cost accrual number of all costs incurred by CBRY in connection with RAILROAD WORK performed by CBRY in connection with the PROJECT.
- D. CROSSING means the existing at-grade public road crossing for Florence-Kelvin Highway located approximately 25 feet Northeast of the proposed STRUCTURE at CBRY Milepost 987.10, DOT # 934315J. Crossing will be modified to a pedestrian only crossing at the end of the project.

- E. EMERGENCY WORK by CBRY means work of an immediate nature required to maintain the integrity of rail service, restore railroad operations or for the protection of persons or CBRY property.
- F. PLANS means (i) the final one hundred percent (100%) completed PROJECT plans and specifications affecting and pertaining to CBRY tracks and right of way prepared by COUNTY and identified with COUNTY's CONSTRUCTION PROJECT NUMBER that have been approved, as to CBRY involvement activity, in writing by CBRY's President, or his authorized representative (General Superintendent) and (ii) CBRY's Minimum Construction Requirements.
- G. PROJECT means all work of every kind and character required in connection with all construction of the Jake Bridge of Unity where it crosses over CBRY railroad facilities. The PROJECT includes, but is not limited to, any and all roadway improvements, changes to railroad safety devices and appurtenances, communication lines, signal and electrical lines and appurtenances, grading, both temporary and permanent drainage facilities, irrigation facilities, signing and striping, modification to utilities, right of way acquisition, preliminary and construction engineering, contract preparation, cuts, fills, highway pavement, retaining walls and all highway facilities at the locations shown on COUNTY's PROJECT PLANS and specifications included herein by reference only.
- H. RAILROAD WORK means the work to be performed by CBRY, at COUNTY's expense, which is described in the Exhibit A. The RAILROAD WORK shall include any work performed by CBRY or its contractors and agents, including, without limitation, any pre-engineering or preliminary review of Plans, engineering, management, administration, design, review or preparation of plans and specifications, inspection and construction labor, materials and equipment as set forth in the AGREEMENT, including approved changes in scope. Work for flagging protection shall be billed directly to COUNTY who will apply for right of entry as directed in the PROJECT PLANS. For this PROJECT, the RAILROAD WORK involves flagging, preliminary review of Plans, PROJECT inspection and modification of CROSSING upon completion of STRUCTURE.
- STRUCTURE means the new Jake Bridge of Unity overpass that will carry vehicular traffic over CBRY's trackage and right of way at CBRY Milepost 987.10 on CBRY's Hayeden Branch Line and will be identified by DOT # 934315J. The design will be detailed in the PLANS.
- J. WORK means the work to be performed by COUNTY's Contractor and agents within CBRY's right of way in accordance with the PROJECT PLANS. WORK shall include engineering, management, administration, design, and construction labor, including approved changes in scope.
- K. WORK ORDER NUMBER means a unique CBRY cost accrual number of all costs incurred by CBRY in connection with RAILROAD WORK performed by CBRY in connection with the PROJECT.

ARTICLE II

IN CONSIDERATION of the covenants of COUNTY hereinafter set forth, and the faithful performance thereof, CBRY, at COUNTY's expense, agrees as follows:

1. To furnish the RAILROAD WORK with its own employees working under Railroad Labor Agreements or by contractor(s), if necessary. COUNTY shall reimburse CBRY for any Railroad Work on an actual cost basis in accordance with EXHIBIT A. CBRY estimates its daily flagging rate could be approximately Four Hundred and Fifty Dollars (\$450.00) per ten (10) hour day. CBRY will bill actual flagging costs based on its current flagging rates when the flagging is performed. The furnishing of such watchmen and flaggers shall be as necessary for the safety of CBRY's property and the operation of its trains during construction of the PROJECT. Payment for flagging protection will be made directly by COUNTY's Contractor to CBRY based on invoices to COUNTY's Contractor for actual work specific for flagging protection.

Construction of the PROJECT shall include the following RAILROAD WORK by CBRY and at County's expense.

- a. Modification of the CROSSING to pedestrian only use
 - i. Removal/relocation of crossing signals at an estimated cost of \$60,508.
 - ii. Installation of new crossing surface at an estimated cost of \$15,125.79.
 - iii. Installation of Pedestrian Crossing Maze at an estimated cost of \$30,500.
 - iv. Railroad Flagging at and estimated cost of \$450/day @ 80 days = \$36,000.
 - v. Relocation of public access to pedestrian crossing and/or travel to residential area at County's expense.
- b. If construction of the PROJECT has not commenced within three (3) years from the date of this AGREEMENT, the Highway Grant shall be rescinded and released by COUNTY executing and delivering to CBRY a Release and Quitclaim in recordable form. The AGREEMENT will terminate and become null and void and the \$000.00 paid by COUNTY for said rights shall be returned to COUNTY by CBRY.
- 2. CBRY may submit to COUNTY's Contractor monthly invoices for actual flagging costs and submit to COUNTY monthly itemized invoices for preliminary engineering review of the PLANS and PROJECT inspection notwithstanding the fact that CBRY's preliminary engineering review has preceded the date of this Agreement. Except for the final invoice, monthly invoices shall only be submitted for costs of Five Hundred Dollars (\$500.00) or more. COUNTY or its Contractor shall provide written notice to the person named in Article IV, section 27, that flagging services are no longer needed. This notice shall be provided to CBRY at least five (5) days in advance of when flagging services are no longer required. CBRY shall, within one hundred and twenty (120) days after receiving such

written notice from the COUNTY or its contractor, submit to COUNTY's Contractor detailed invoices covering the actual cost of all flagging. COUNTY or its Contractor shall also provide written notice to the CBRY person named in Article IV, Section 27, that all work on or above CBRY's Right of Way is complete. CBRY shall then, within one hundred and twenty (120) days after receiving such notice, submit to COUNTY a detailed invoice covering the actual cost of performing any RAILROAD WORK, as described in Article II, Paragraph 2, including applicable taxes and standard CBRY direct and indirect overhead labor additives and subcontracting administration charges. Invoices shall include a detailed cost run summary, the appropriate AGREEMENT number, CONSTRUCTION TRACS NUMBER, and COST ACCUMULATION NUMBER OR WORK ORDER NUMBER, and shall be labeled as "Progress Invoice" or "Final Invoice", as the case may be. Final invoice will be accompanied by a detailed cost run summary. Costs shall be accumulated and invoiced in accordance with the Federal Aid Policy Guide as contained in 23 CFR 140, subpart I and 23 CFR 646, subparts A and B, which regulations are incorporated into this AGREEMENT by reference.

Compensation for flagging costs associated with PROJECT will be at County's expense.

Costs shall be accumulated and invoiced in accordance with the Federal Acuisition Regulations. The United States Code of Federal Regulations, 23 C.F.R. 646 and 23 C.F.R. 635.410, is incorporated into this agreement by reference.

- 3. CBRY agrees to coordinate with COUNTY's Contractor with respect to construction schedule and work-related items for the safe and effective progress of the RAILROAD WORK. When CBRY receives an "Application For Right Of Entry" from COUNTY's Contractor, CBRY shall begin a dialog with COUNTY's Contractor to mutually schedule and coordinate their respective work. COUNTY's Contractor and representatives of CBRY shall meet, or communicate, on a monthly basis to review the WORK and RAILROAD WORK completed to date and together schedule future work items. CBRY shall make commercially reasonable efforts to commit labor and materials necessary to respond within thirty (30) days to work activities identified by COUNTY's Contractor to be initiated by CBRY; however, CBRY shall have no liability to COUNTY, COUNTY's Contractor or any other person or entity, if CBRY does not complete the RAILROAD WORK within such anticipated time frame based on a reasonable cause from a legitimate unforeseen circumstance.
- 4. CBRY shall be given progress copies of COUNTY's design plans at the 30%, 60% and 95% level along with a copy of the final PS&E submittal by COUNTY's Consultant. CBRY shall review such plans and provide to COUNTY the changes that are needed with regard to CBRY facilities. If, after review of the final PS&E submittal, CBRY sees no significant changes affecting CBRY facilities from the previous submissions CBRY shall signify by letter, addressed to COUNTY (see Article IV, paragraph 27), its approval of the design PLANS as to the impacts to CBRY facilities.

- 5. COUNTY confirms that all portions of the STRUCTURE that are the subject matter of this Agreement are located on CBRY's railroad right of way. COUNTY shall have the right to request that CBRY's Contractor, who is working or acting in an incompetent, negligent or unsafe manner while located on COUNTY's right of way beyond the boundaries of CBRY's railroad right of way ("Non-CBRY ROW") be removed from the Non-CBRY ROW. In the event that CBRY's Contractor elects not to honor such request, then COUNTY may stop such work or activity on the "Non-CBRY ROW" until the matter has been resolved to COUNTY's satisfaction. In the event that CBRY's Contractor elects not to honor such stop work or stop conduct request, COUNTY may stop the incompetent, negligent, or unsafe work or conduct occurring on the Non-CBRY ROW until the matter has been fully resolved to COUNTY's satisfaction. Before COUNTY takes action to stop work or conduct on Non-CBRY ROW, the matter will be resolved through COUNTY's Engineer (if the problem occurs during the initial construction of COUNTY's structure) or through COUNTY's District Maintenance Engineer (if the problem occurs after initial construction.) COUNTY will make the final decision on matters involving Non-CBRY ROW. For work or conduct performed by CBRY's contractors on Non-CBRY ROW, CBRY's Contractor shall notify COUNTY's District Maintenance Engineer. For work performed by CBRY's Contracors on Non-CBRY ROW, CBRY's ccontractors shall obtain any necessary government permit(s) required for work on Non-CBRY ROW from County's District Permit Officer. The term CBRY's contractor includes the employees and subcontractors of CBRY's Contractor.
- 6. <u>Control of Materials.</u> Steel and iron materials and products used on this WORK shall comply with the current "Buy America" requirements of 23 C.F.R. 635.410 and conform to the requirements of ADOT Standard Specifications; subsection 106.15 as indicated in Exhibit "BA".

ARTICLE III

IN CONSIDERATION of the covenants of CBRY herein set forth and the faithful performance thereof, COUNTY, at its expense, agrees as follows:

- To provide to CBRY the design PLANS as set forth in Article II, paragraph 7. A copy of the final PLANS are hereby adopted and incorporated into this AGREEMENT by reference. COUNTY agrees that neither it nor its Contractor shall commence any PROJECT work on any CBRY right of way until it has received CBRY's written approval of the PLANS. Notwithstanding CBRY's approval of the PLANS, CBRY shall not be responsible for the design, details, permitting or construction of the STRUCTURE.
- To make application to the Arizona Corporation Commission for an order authorizing construction of the PROJECT together with a copy of this AGREEMENT.
- 3. Upon completion of this project, County will use the CROSSING as a Pedestrian only at-grade crossing at their own risk
 - CBRY will submit a Pedestrian Crossing Agreement to the County separate from this document, which includes indemnification clause(s).

- 4. To make any and all arrangements to secure the location, or relocation, of wire lines, pipe lines and other facilities owned by private persons, companies, corporations, political subdivisions or public utilities, other than CBRY, which may be found necessary to locate, or relocate, in any manner whatsoever due to the construction of the PROJECT. CBRY shall work closely with COUNTY design personnel to identify points of conflict between new CBRY facilities and existing utility facilities.
- 5. To reimburse CBRY for work of an emergency nature caused by COUNTY or COUNTY's Contractor, in connection with the PROJECT that CBRY deems is reasonably necessary for the immediate restoration of railroad operations, or for the protection of persons or CBRY property. Such work may be performed by CBRY without prior approval of COUNTY; however, COUNTY reserves the right to review the cause of said work to determine payment responsibilities. If the parties cannot agree on the responsible party for damages, the matter will be resolved through compromise, arbitration or adjudication. Pursuant to A.R.S. Section 12-1518, the parties shall use arbitration, after exhausting applicable administrative remedies, to resolve disputes arising out of this AGREEMENT where the sole relief sought is monetary damages of \$100,000,00, or less, exclusive of interest and costs.
- 6. To furnish all labor, materials, tools and equipment in performing the WORK and constructing the STRUCTURE in conformance with the PLANS to be performed by COUNTY as hereafter provided. Construction with respect to said PROJECT shall be undertaken by the COUNTY's Contractor and shall be performed in a manner as to not interfere with the safe and timely operations of CBRY's locomotives, trains, cars and on-track maintenance equipment or other CBRY tracks or facilities.
- 7. To require its Contractor(s) to notify CBRY's General Superintendent, or designated representative at least fifteen (15) calendar days in advance of commencing work on CBRY property or near CBRY's tracks, when requesting a CBRY flagger, in accordance with the requirements of the Right of Entry documents, in order to protect CBRY from damage or interference to CBRY's trains and property.
- 8. To require its Contractor(s) to coordinate their work each day with CBRY's operations, prior to commencing any construction activity that may affect CBRY operations, by contacting CBRY's General Dispatcher.
- 9. To require its Contractor(s) to furnish CBRY's General Superintendent, for approval, five (5) copies of plans and two (2) sets of calculations for any falsework, shoring or cribbing proposed to be used over, under, or adjacent to CBRY's tracks. The use of such false work, shoring or cribbing shall conform to the standard clearances required by the Commission, or CBRY, whichever is more stringent. In case the use of such shoring will impair said clearance, COUNTY will ensure that application is made to the Commission for approval of such impairment during the period of construction of the PROJECT. County shall ensure that it or its Contractor(s) provide such material to CBRY for approval at least thirty (30) days in advance of when the County or its contractor(s) need such approval.

To ensure that all existing CBRY maintenance roadways will remain open at all times during construction.

- 10. To supervise, at its expense, the operations of all COUNTY's Contractors through the use of inspectors who are qualified to inspect the type of work being performed. Furthermore, if at any time during construction, CBRY discovers that any COUNTY inspection personnel are not properly inspecting the construction of CBRY facilities, CBRY shall have the right to request COUNTY to arrange for the immediate replacement of the inspection personnel who are not performing proper inspections. The responsibility of COUNTY for safe conduct and adequate policing and supervision of the PROJECT shall not be lessened or otherwise affected by CBRY's approval of the PLANS or by CBRY's collaboration in performance of any work, or by the presence at the work site of CBRY's representatives, or by compliance by COUNTY with any requests or recommendations made by such representatives. If a representative of CBRY is assigned to the PROJECT, COUNTY will give due consideration to suggestions and recommendations made by such representative for the safety and protection of CBRY's property and operations.
- 11. To allow CBRY, if necessary, to temporarily suspend RAILROAD WORK activity on the PROJECT to attend to work of an emergency nature elsewhere in the region. CBRY will not be subject to penalties as a result of such delays. Despite any such delay, CBRY shall work as expeditiously as possible under the circumstances to complete the RAILROAD WORK.
- 12. To pay CBRY for any flagging invoices not paid by any COUNTY contractors within ninety (90) days of its receipt of billing, subject to COUNTY review of construction accounts to prevent double billing.
- 13. To allow CBRY to include a charge, at the time of billing, equal to the amount allowed by 23 CFR 140 Subpart I, to cover the cost of labor additives and other benefits identified in the Federal audit of CBRY charges and fees currently approved. Such charge shall be considered a portion of the actual cost of the RAILROAD WORK. COUNTY acknowledges that it can elect, under 23 CFR 140 Subpart I, to reimburse CBRY for all indirect overhead labor and construction costs, using CBRY's standard additive rates, and COUNTY agrees to do so.

ARTICLE IV

IN CONSIDERATION of the premises, the parties mutually agree as follows:

- 1. That all WORK contemplated in this AGREEMENT shall be performed in a good and workmanlike manner in accordance with the PLANS. Each portion shall be promptly commenced by the parties hereto obligated to do the same and thereafter diligently prosecuted to conclusion in its logical order and sequence. Furthermore, any changes, or modifications, during construction that affect the RAILROAD WORK obligated by CBRY shall be agreed to by both parties in writing and attached as an addendum to this AGREEMENT.
- 2. That such WORK as defined in the PLANS, specifications and this AGREEMENT is subject to the Commission's approval, with minimum clearances of not less than those specified by the Arizona Corporation Commission, or as otherwise authorized by the Arizona Corporation Commission for CBRY's tracks at this location. It is expressly understood and agreed that COUNTY's Contractor shall store all

- construction material and equipment off of CBRY's right of way and when performing any work on any CBRY right of way such materials and equipment shall be at least twenty-five feet (25') from the centerline of CBRY's nearest track.
- 3. In the event of an unforeseen railroad emergency, CBRY reserves the right to reallocate all or a portion of its labor forces assigned to perform the RAILROAD WORK when CBRY believes such reallocation is necessary to provide for the immediate restoration of railroad operations of CBRY, or its affiliates, or to protect persons or property on or near any CBRY-owned property or any related railroad. CBRY will reassign such labor forces to again perform the RAILROAD WORK when, in its sole, but good faith opinion, such emergency condition no longer exists. CBRY will not be liable for any additional costs or expenses of the PROJECT resulting from any such reallocation of its labor forces. The parties further agree that such reallocation of labor forces by CBRY and any direct, or indirect, results of such reallocation will not constitute a breach of this AGREEMENT by CBRY.
- 4. COUNTY's Contractor shall conduct its WORK in a safe and orderly manner and according to the PLANS and specifications. COUNTY's Contractor shall at no time hinder the safe operation of CBRY facilities, nor shall it allow the CBRY-required insurance to lapse at any time. If any COUNTY Contractor shall prosecute the PROJECT WORK in a manner that CBRY deems to be hazardous to its property, facilities or the safe and expeditious movement of its traffic, or if the insurance described in the Right of Entry documents shall be canceled during the course of the PROJECT, CBRY shall have the right to stop the WORK within CBRY right of way until the acts or omissions of such COUNTY Contractor have been fully rectified to the satisfaction of CBRY's General Superintendent, or additional insurance has been delivered to and accepted by CBRY. Such work stoppage shall not give rise to, or impose upon CBRY, any liability to COUNTY. In the event that CBRY shall desire to stop work in CBRY right of way, CBRY agrees to give immediate notice thereof to the COUNTY's Engineer in an attempt to correct any deficiency.
- 5. During the construction of the PROJECT COUNTY's Contractor will not deposit any material, equipment or debris onto CBRY property that, in the opinion of CBRY, would hinder railroad operation or be unsafe to railroad operations. Contractor will not store material within CBRY's right of way. When Contractor personnel and equipment are not working, they shall be at least twenty-five (25) feet from the centerline of the nearest track.
- 6. All expenses incurred by CBRY and billed to the COUNTY or Contractor pursuant to Article II, paragraph 3, hereof, shall be in accordance with, and subject to the terms and provisions of 23 CFR 140 Subpart I, as amended or revised. COUNTY agrees to reimburse costs of all of CBRY's RAILROAD WORK as described in Article II, paragraph 3, hereof, notwithstanding the fact that such work has preceded the date of this AGREEMENT. COUNTY shall have the right to audit CBRY's costs, including any changes approved by COUNTY and CBRY.
- 7. CBRY's General Superintendent will be given a Notice To Proceed when the Opinion and Order has returned from the Arizona Corporation Commission. The construction of the PROJECT, on CBRY right of way, shall not be commenced until COUNTY's Contractor shall have given not less than thirty (30) working days' prior

- written notice to CBRY's General Superintendent, which notice shall County the time that operations for construction of the PROJECT, on CBRY right of way, shall commence.
- 8. All utility crossings within the limits of the Permanent Easement will be covered by separate agreements between CBRY and each of the owners of the utilities. No highway drainage outfall points will discharge onto CBRY property, except as shown on the approved PLANS.
- 9. Upon completion of the RAILROAD WORK, COUNTY will notify CBRY's General Superintendent in writing that final invoices must be submitted within 120 days. After completion of the construction of said PROJECT as herein described:
 - a. CBRY will, at its sole cost and expense, maintain, repair, renew, and reconstruct its roadbed, track, and all other railroad facilities;
 - b. COUNTY will own and, at its sole cost and expense, maintain, repair, renew and reconstruct, the STRUCTURE, lighting, roadway drainage facilities, roadway approaches, and all appurtenances, and shall be responsible for all grafitti removal.
 - c. County will be responsible to maintain, repair, renew and reconstruct approaches to the Vehicular and Pedestrian CROSSING(S) at County's expense.
 - NOTE: ACC Rule requires the railroad to maintain the pedestrian crossing within 2 feet of existing tracks, County maintain the rest.
 - 10. COUNTY shall have the right to maintain the STRUCTURE and connecting roads. If the COUNTY or its contractor needs to perform any maintenance or repair work that involves the side of the STRUCTURE, or below the STRUCTURE, or the CROSSING APPROACHES within twenty five (25) feet of any CBRY track, the COUNTY or its Contractor shall notify CBRY's General Superintendent to obtain prior authorization. If maintenance or inspection work is contracted to a consultant or Contractor, COUNTY will require its consultant, or prime Contractor(s), to comply with the obligations in favor of CBRY set forth in the Right of Entry documents issued by CBRY, as may be revised from time to time. Should personnel, or equipment, performing these functions operate within twenty-five (25) feet of the track centerline, or if the equipment has the potential to foul the track, CBRY, at its election, may require flagmen to protect its operations and the safety of the personnel performing the work. The cost of flagging will be borne by the COUNTY, its consultant or its Contractor, as the case may be.
 - 11. If COUNTY shall deem it necessary or desirable, in the future, due to traffic conditions or maintenance concerns, to alter or reconstruct the facilities herein contemplated, it may do so, the cost of which shall be paid by COUNTY. However, COUNTY, prior to commencing any such alteration or reconstruction work, shall submit revised plans for review and approval to CBRY, and seek the execution of an addendum to this AGREEMENT or the completion of a separate agreement, if further encroachment upon CBRY's right-of-way results.

- 12. All the covenants and provisions of this AGREEMENT shall be binding upon and inure to the benefit of the successors and assigns of the parties hereto, except that no party may assign any of its rights or obligations hereunder without the prior written consent of the other party.
- 13. Nothing contained in this AGREEMENT shall be construed as obligating COUNTY to undertake the actual construction of the PROJECT until such time as it deems appropriate. In the event that construction of the PROJECT has not begun for a period of three (3) years from the date of CBRY's execution of this AGREEMENT, this AGREEMENT shall become null and void.
- 14. The acceptance date of this AGREEMENT shall be the day on which the last party executes the AGREEMENT.
- 15.In the event conditions or circumstances require a change in the scope of CBRY's RAILROAD WORK on the PROJECT, as set forth in this AGREEMENT and on the PROJECT PLANS, each party shall agree in writing to the changes, including payment responsibilities, prior to performing the work. COUNTY shall not be responsible for any costs associated with any change in the scope of RAILROAD WORK until COUNTY approves the change in writing. The proposed schedule for completion of RAILROAD WORK shall be adjusted to accommodate the change in scope and the time necessary for COUNTY to process the change request.
- 16. If COUNTY, due to an audit of CBRY's billing sent to COUNTY has any audit exceptions, COUNTY and CBRY shall discuss the audit exceptions and agree upon the amount of billing to COUNTY that is the subject matter of the audit exceptions. If, when doing such review, it is determined by COUNTY and CBRY that CBRY is to reimburse COUNTY for any payment already made by COUNTY to CBRY, CBRY shall make such reimbursement within ninety (90) days after COUNTY and CBRY have made such determination. Likewise, if it is determined by COUNTY and CBRY that COUNTY needs to make any additional payment to CBRY, COUNTY shall make such additional payment within ninety (90) days after COUNTY and CBRY have made such determination. If any audit exception(s) cannot be settled by COUNTY and CBRY through their discussions, the audit exception(s) shall be settled through compromise, arbitration or adjudication as provided in this AGREEMENT.
- 17.To the extent permitted by law, each Party (as "Indemnitor") agrees to indemnify, defend and hold harmless the other Party, its officers, officials, agents and employees (as "Indemnities") for any claims, losses, liability, costs or expenses (including reasonable attorneys fees) arising out of omissions, negligence, misconduct or other fault of the Indemnitor, its officers, officials, agents or employees in connection with work performed under this Agreement.
- 18. The parties shall use arbitration after exhausting applicable administrative remedies to resolve disputes arising out of this AGREEMENT where the sole relief sought is monetary damages of \$100,000.00, or less, exclusive of interest and costs, as provided in A.R.S. § 12-1518.

- 19. When not pre-empted by Federal Law, rules and responsibilities, This AGREEMENT is subject to the provisions of Chapter 1 of Title 35, Arizona Revised Statutes.
- 20. CBRY shall comply with all applicable provisions of Executive Orders 75-5 and 99-4, "Non-Discrimination in Employment by Government Contractors and Subcontractors".
- 21. All parties hereby are put on notice that this AGREEMENT is subject to cancellation by the Pinal County Board of Supervisors pursuant to A.R.S. § 38-511 with the understanding, however, that COUNTY shall pay to CBRY within ninety (90) days, for all RAILROAD WORK completed, or in progress, up to the time of cancellation and COUNTY, at its expense, shall restore all CBRY right of way to a condition existing prior to the execution of this AGREEMENT by CBRY.
- 22.In accordance with A.R.S. § 35-214 for projects involving only COUNTY funding, all books, accounts, reports, files and other records relating to this AGREEMENT shall be subject at reasonable times to inspection and audit by COUNTY for five (5) years after the receipt of final payment. If a project is federally funded, as is this PROJECT, the time limit for inspection and audit of CBRY records by COUNTY shall be three (3) years after the receipt of the final payment. COUNTY shall notify CBRY on, or before, the advertisement date of the PROJECT as to which form of funding is utilized. At COUNTY's discretion said inspection and audit may be held at CBRY's offices in Hayden, Arizona during normal business hours. COUNTY shall conduct its inspection and audit at its expense, including CBRY's audit costs.
- 23. This AGREEMENT, including any schedules, exhibits or attachments hereto, constitutes the entire agreement between the parties, and no understanding or obligation not expressly set forth herein shall be binding upon them. No modification, amendment or alteration of this AGREEMENT shall be valid unless it is in writing and signed by both parties.
- 24. This AGREEMENT shall be governed by the laws of the County of Arizona, unless such laws are otherwise preempted by Federal statutes, rules and/or regulations.
- 25. The waiver by either party of any breach or failure to provide full performance under any of the terms or conditions of this AGREEMENT shall not be construed as a waiver of any other term or condition, or of any subsequent breach of the same or any other term or condition.
- 26. Any notice provided for or concerning this AGREEMENT shall be in writing and be deemed sufficiently given when sent by certified mail, return receipt requested, to the parties at the following addresses:

Bobby R. Blake General Superintendent Copper Basin Railway PO Drawer I Hayden, Arizona 85135 Public Works Director 31 North Pinal Street, Building F P.O. Box 727 Florence, AZ 85132

27. Supporting documentation for reimbursement of RAILROAD WORK shall comply with 23 CFR 140 Subpart I. CBRY's invoice to COUNTY of actual costs incurred by CBRY under this PROJECT shall include CBRY'S WORK ORDER NUMBER or COST ACCUMULATION NUMBER and COUNTY's Agreement Number and TRACS Number. CBRY's cover letter to COUNTY sending any supporting documentation for such billing shall also reference CBRY's WORK ORDER NUMBER or COST ACCUMULATION NUMBER and COUNTY'S Agreement Number and TRACS Number with the understanding that the supporting documentation papers will not need to reference such numbers.

IN WITNESS WHEREOF, COUNTY has caused this AGREEMENT to be executed and attested by its duly qualified and authorized officials, and CBRY has executed this AGREEMENT, both as of the day and year first above written.

| COPPER BASIN RAILWAY COMPANY | PINAL COUNTY, a political subdivision of the State of Arizona | |
|---------------------------------|---|-----------|
| By: Junola | By: Chariman, Board of Supervisors | |
| Title: resident | Dated: 4/19/2014 | |
| Its: | ATTEST: Act Cluff Clerk, Board of Supervisors Dated: 4/9/2014 | POINAL CO |
| Dated: 3-20-14 | Approved as to form and within the powers and authority granted Pinal under the laws of the State of Arizona Seymon Jr. Huhen Deputy County Attorney | ANOU. |

ACKNOWLEDGMENT BY CBRY

| STATE OF Arizona |) |
|---|---|
| COUNTY OF Pinal |) ss) |
| day of March | g instrument was acknowledged before me this 2014, by L. S. JA COBSON , the Precident n Railway, Inc. a C corporation. Notary Public Patrix & Goodradge Notary Public - Arizona Pinal County My Commission Expires August 11, 2015 |
| | ACKNOWLEDGMENT BY COUNTY |
| COUNTY OF ARIZONA COUNTY OF PINAL The foregoing of, Pinal County Departm My Commission Expires: 1/13/18 | instrument was acknowledged before me this |

Summary Of Costs To Be Paid by COUNTY Through This AGREEMENT

Florence-Kelvin Highway
Jake Bridge of Unity

NEW OVERPASS AT RAIL MILE 987.10/ DOT # 934315J

| Removal/relocation of crossing signals at a | n estimated cost of | of\$60,508 |
|---|---------------------|--------------|
| Installation of new crossing surface at an es | stimated cost of | \$15,125.79 |
| Pedestrian Railroad Crossing Maze | | \$30,500 |
| | Subtotal | \$106,133.79 |

Total Estimated PROJECT Cost (Paid by COUNTY to CBRY) \$106,133.79

Flagging costs for the structure are a separate cost and shall be invoiced to COUNTY.

Flagging will be billed to the COUNTY using CBRY current rates and actual number of flagging days. Currently the flagging rate for a ten (10) hour day is \$450.00. COUNTY estimates that Eighty (80) days of flagging may be needed for the PROJECT. Based on the above, estimated flagging costs are:

80 estimated days of flagging X \$450.00/day = \$36,000

EXHIBIT A-1

New Crossing Surface

Private pedestrian crossing scope of work includes but not limited to the labor, material and equipment needed to install a private pedestrian crossing @ Milepost 987.10. Pedestrian crossing consists of the following:

- 1. 18 track feet of Omni rubber crossing panels for #136 rail
- 2. 11 7"x9"x9' hardwood crossties + otm (other track material)
- 3. 3 laborers @ 2 10 hour days (items 4, 5 & 6)
- 4. $1 \text{foreman} \bigcirc 2 10 \text{ hour days}$
- 5. 1 crew truck equipped w/tools
- 6. 1-930 front end loader w/attachment @ 2-10 hour days

Pedestrian Railroad Crossing Maze

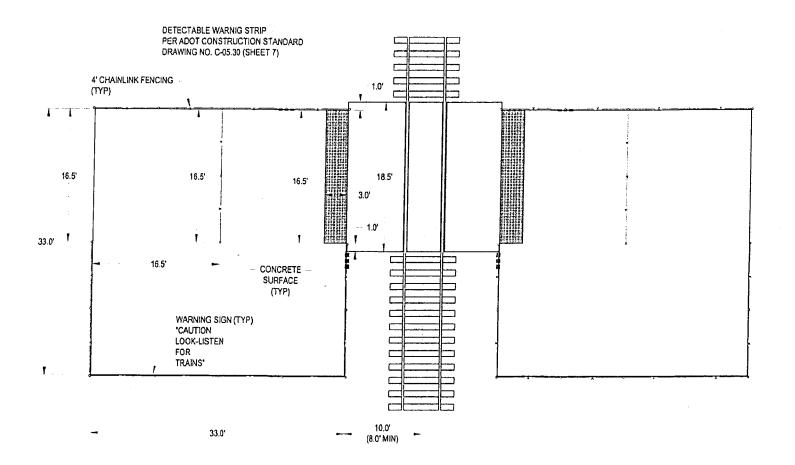
Install concrete sidewalks on both sides of railroad tracks with 4' chainlink fence in a maze configuration.

Concrete to be 2500 psi with fiber mesh and control joints.

Chainlike fence to be 9 gd. Wire standard line poles, and a top rail all corner post to be heavy wall.

Project to be per EXHIBIT A-2.

EXHIBIT A-2



PROPOSED PEDESTRIAN/EQUESTRIAN RAILROAD CROSSING MAZE

EXHIBIT B

Type, size and Location Prints for the Structure (Please see the Attachment)

EXHIBIT BA

Certificate of Compliance

for

Domestic Steel and Iron Materials and Products

ADOT Stored Specifications (Subsection 106.15, 2/15/11). Domestic Materials and Products:

Steel and iron materials and products used on all projects shall comply with the current "Buy America" requirements of 23 CFR 635.410.

All manufacturing processes to produce steel and iron products used on this utility relocation project shall occur in the United States. Raw materials used in manufacturing the steel and iron products may be foreign or domestic. Steel or iron not meeting these requirements may be used in products on this project provided that the invoiced cost to the contractor for such steel products incorporated into the work does not exceed either one-tenth of one percent of the total (final) contract cost or \$2,500, whichever is greater.

Any process which involves the application of a coating to iron or steel shall occur in the United States. These processes include epoxy coating, galvanizing, painting, or any other coating which protects or enhances the value of covered material.

The requirements specified herein shall only apply to steel and iron products permanently incorporated into the project. "Buy America" provisions do not apply to temporary steel items, such as sheet piling, temporary bridges, steel scaffolding and falsework, or to materials which remain in place at the contractor's convenience.

The Railroad company shall furnish ADOT with Certificates of Compliance, conforming to the requirements of ADOT Standard Specifications; Subsection 106.05(B), which state that steel or iron products incorporated in the project meet the requirements specified. Certificates of Compliance shall also certify that all manufacturing processes to produce steel or iron products, and any application of a coating to iron or steel, occurred in the United States.

Convict-produced materials may not be used unless the materials were produced prior to July 1, 1991 at a prison facility specifically producing convict-made materials for Federal-aid construction projects.

ADOT Standard Specifications Subsection 106.05 Certificates. (B) Certificate of Compliance:

A Certificate of Compliance shall contain the following information:

- (1) A description of the material supplied.
- (2) Quantity of material represented by the certificate.
- (3) Means of material identification, such as label, lot number, or marking.
- (4) Statement that the material complies in all respects with the requirements of the cited specifications. Certificates shall state compliance with the cited specification, such as AASHTO M 194, ASTM A 588; or specific table or section of the Arizona Department of Transportation Standard Specifications or Special Provisions. Certificates may cite both, if applicable.
- (5) The name, title, and signature of a person having legal authority to bind the manufacturer or the supplier of the material. The date of the signature shall also be given. The name and address of the manufacturer or supplier of the material shall be shown on the certificate. A copy or facsimile reproduction will be acceptable. However, the original certificate shall be made available upon request. The person signing the certificate shall be in one of the following categories:
- (a) An officer of a corporation.
- (b) A partner in a business partnership or an owner.
- (c) A general manager.
- (d) Any person having been given the authority in writing by one of the three listed above. The manufacturer or supplier may submit a list of those who are authorized to sign certificates. This list shall be submitted under the name, title, and signature of one of the first three listed above. This list will be kept on file for subsequent certificates received on that project.

Each of the first four items specified above shall be completed prior to the signing as defined in item five. No certificate will be accepted that has been altered, added to, or changed in any way after the authorized signature has been affixed to the original certificate. However, notations of a clarifying nature, such as project number, contractor, or quantity shipped are acceptable, provided the basic requirements of the certificate are not affected.

LICENSE FOR PRIVATE PEDESTRIAN/EQUESTRIAN CROSSING

THIS LICENSE, made as of this 9th day of April 2014, by Copper Basin Railway Inc. (Railroad), with office located at P.O. Drawer I, Hayden, Arizona 85135, to Chairman, Board of Supervisors Pinal County (Licensee), whose address is 31 North Pinal Street, Building F, P.O. Box 727, Florence, Arizona 85132.

Railroad hereby grants Licensee (further referred to as Pinal), a non-exclusive license to construct, maintain and use a permanent pedestrian/equestrian up to sixteen & one half (16.5') feet wide called a ("crossing"), constructed of material approved by the Railroad and governing authorities, said Crossing to be located at approximately Railroad Milepost 987.10 in at/in/near Kelvin, AZ.

NOW, THEREFORE, for and in consideration of the mutual covenants, terms, conditions and agreements herein contained, the receipt and sufficiency of which are specifically acknowledged by the parties hereto, the parties do agree as follows:

- 1. The Crossing shall be used solely by Pinal, Pinal's members or its designees only as a means of ingress and egress to the private property of Licensee or leased property of others or public property adjacent to said Crossing. The Crossing shall not be used by any motorized vehicular traffic (except for specific needs of the handicapped) and shall be governed and/or policed by the Licensee to ensure its members or designees comply with posted procedures required for safe occupancy of Railroad property.
- 2. No expressed or implied means of ingress and egress or way of necessity upon, across or over adjacent lands of Railroad is granted by this License. Licensee, at their own expense, will secure and maintain any necessary means of ingress and egress to the Crossing across lands of others.
- 3. Pinal shall not at any time own or claim any right, title or interest in or to Railroad's property occupied by Licensee's Crossing, nor shall the exercise of this License for any length of time give rise to any right, title or interest to Licensee to said property of Railroad, or any right of interest in Licensee other than the license created hereby.
- 4. Pinal agrees to install device(s) at their sole expense at the designated location of the crossing in this agreement, which adequately prevents all pedestrian traffic from accessing live track when the crossing is occupied by Railroad traffic.
- 5. All roadways/approaches shall be graded, surfaced and maintained by Licensee so as to ensure safe transition of pedestrians from any roadway/approach to the Railroad.

"LICENSE FOR PRIVATE PEDESTRIAN/EQUESTRIAN CROSSING CONTINUED"

- 6. Pinal shall be liable to construct, maintain, use and remove the roadway/approaches and appurtenances at Licensee's sole expense so as not to interfere with or obstruct the operation of the Railroad or the use of the Railroad's property or endanger occupants of Railroad property. In addition, Licensee will comply with all federal/state/county requirements for the construction of the crossing and reimburse the Railroad for any taxes levied upon the Licensees' improvements and all other expenses arising from this License.
- 6.1 Pinal shall be liable to ensure the pedestrian/equestrian crossing and "Historical Gila River Bridge" are not used for unintended purpose(s).
- 7. The Railroad or Pinal may terminate this License at any time for failure to comply with the articles of this Agreement. Property or improvements remaining upon the Railroad property after termination of this License shall be deemed to be abandoned and may be removed by the Railroad at the cost of Licensee.
- 8. Pinal, recognizing that Railroad's operation and any use of Railroad property, tracks and right-of-way involves increased risks, expressly assumes and agrees to indemnify and hold harmless Railroad of and from all risk of loss, costs, damages, claims, actions, cause and causes of action, suits, demands or expense (including a reasonable attorneys' fee) ("Damages") to, and waives any right to ask or demand Damages for, Property of Licensee or any part thereof, at Crossing including loss of or interference with service thereof, regardless of cause, including; (a) any fault, failure or negligence of Railroad in construction, operation or maintenance of the Crossing or in rail operations on or over the Crossing or otherwise; and/or (b) any fire, regardless of the source of origin thereof. For this Section, the term "Property of Licensee" shall include property of third parties situated or placed upon Railroad's right-of-way by Licensee or by such third parties with the consent or acknowledgment of Licensee.
- 8.1 Pinal will protect, indemnify and hold harmless the Railroad its servants, agents, employees, lessees, successors and assigns against and from any and all loss, damages, suits judgments, claims and expenses of every kind, arising from or growing out of, directly or indirectly, (a) the construction, existence, use, condition, maintenance or repair of said crossing: (b) injury to or death of any person whomsoever may enter upon or use said crossing; (c) loss of or damage to property in the possession of any such person while on or about said crossing; (d) any accident or collision at the point of ingress/egress; or (e) the violation by Licensee, or by any of its invitees, of any of the terms or provisions of this License.

"LICENSE FOR PRIVATE PEDESTRIAN/EQUESTRIAN CROSSING CONTINUED"

- 9. Pinal shall procure and maintain during the life of this agreement General Liability Insurance which will insure the indemnity undertakings herein set forth. Such insurance shall provide coverage of at least \$1,000,000 for bodily injury per person and \$2,000,000 aggregate bodily injury per accident, and \$2,000,000 for property damage. Licensee shall furnish the Railroad with a certificate evidencing that such insurance is in full force and effect and that the same will not be canceled without at least thirty (30) days' advance written notice by the insurance carrier to the Railroad. Licensee will provide a certificate of insurance and an endorsement showing Railroad as an additional insured with waiver of subrogation.
- 10. Railroad reserves the right to use its property in any manner desired and at any time and shall have the right to use and cross over all improvements constructed upon the property without charge by Licensee.
- 11. Pinal will provide Railroad adequate advance notice before doing any work on Railroads Right-of-Way.
- 11.1 All other notices and communications concerning this License shall be addressed to <u>Licensee</u> at the address set forth herein, and to <u>Railroad</u> at the address set forth herein; <u>or</u> at such other address as either party may designate in writing to the other.
- 11.2 Unless otherwise expressly stated herein, <u>all</u> such notices shall be in writing and sent via Certified or Registered Mail, Return Receipt Requested, or by courier, and shall be effective upon (a) actual receipt of (b) addressee's refusal of delivery.
- 12. Neither this License nor any provision hereof or agreement or provision included herein by reference shall operate or be construed as being for the benefit of any third person.
- 13. This License is not assignable without the written permission of the Railroad.

"LICENSE FOR PRIVATE PEDESTRIAN/EQUESTRIAN CROSSING CONTINUED"

IN WITNESS WHEREOF, the parties hereto have executed this License in duplicate, each of which shall be evidence of this License but which shall constitute but one agreement, as of the day and year first above written.

| Railroad: | |
|--|--|
| Copper Basin Railway Inc. | |
| By: Soly & Solite | |
| Title: Deneral Just and tentent | - 1 |
| · · · | State of Arizona, County of Arial Signed before me on this 12 day of 2014, |
| | by Bobby R Blacke |
| | Taria boodridge |
| | Notary Public |
| Licensee: Chairman, Board of Supervisors Pinal County | PATTI A: GOODRIDGE Notary Public - Arizona Pinal County My Commission Expires August 11, 2015 |
| By: | |
| Title: Chairman | |
| | State of Arizona, County of Pinal Signed before me on this 30 to day of |
| | by Anthony Smith Notary Public |
| | · |
| -5- | OFFICIAL SEAL AMBERLEE MUDD NOTARY PUBLIC - State of Arizona PINAL COUNTY My Comm Expires January 13, 2018 |

INTERMODAL TRANSPORTATION DIVISION DEPARTMENT OF TRANSPORTATION STATE OF ARIZONA

PROJECT PLANS

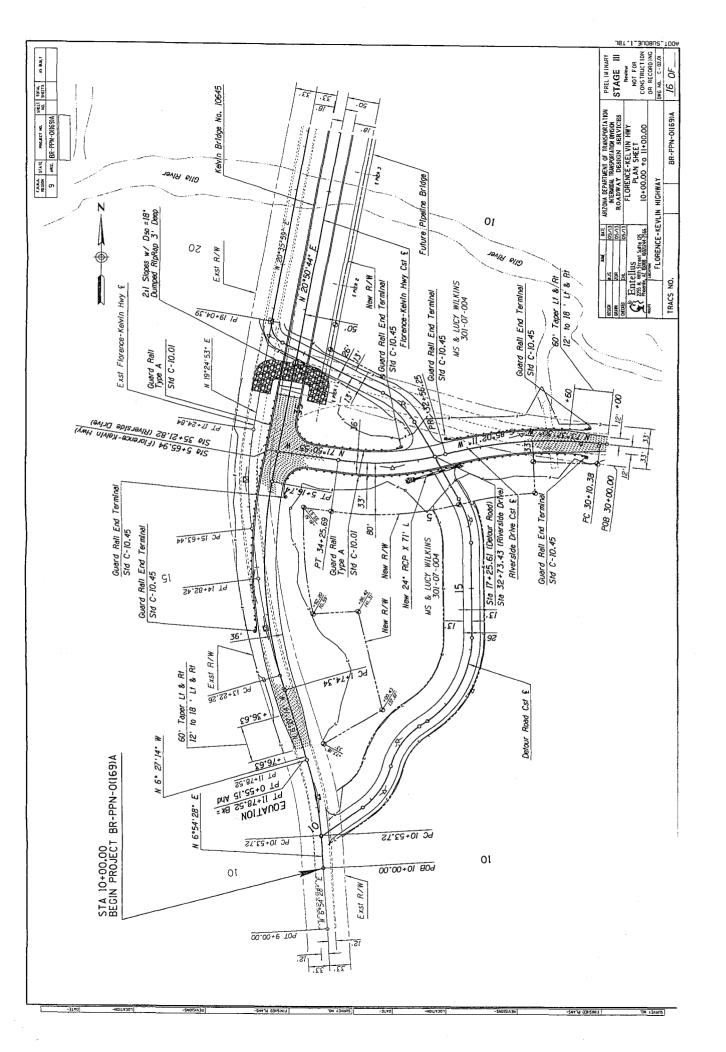
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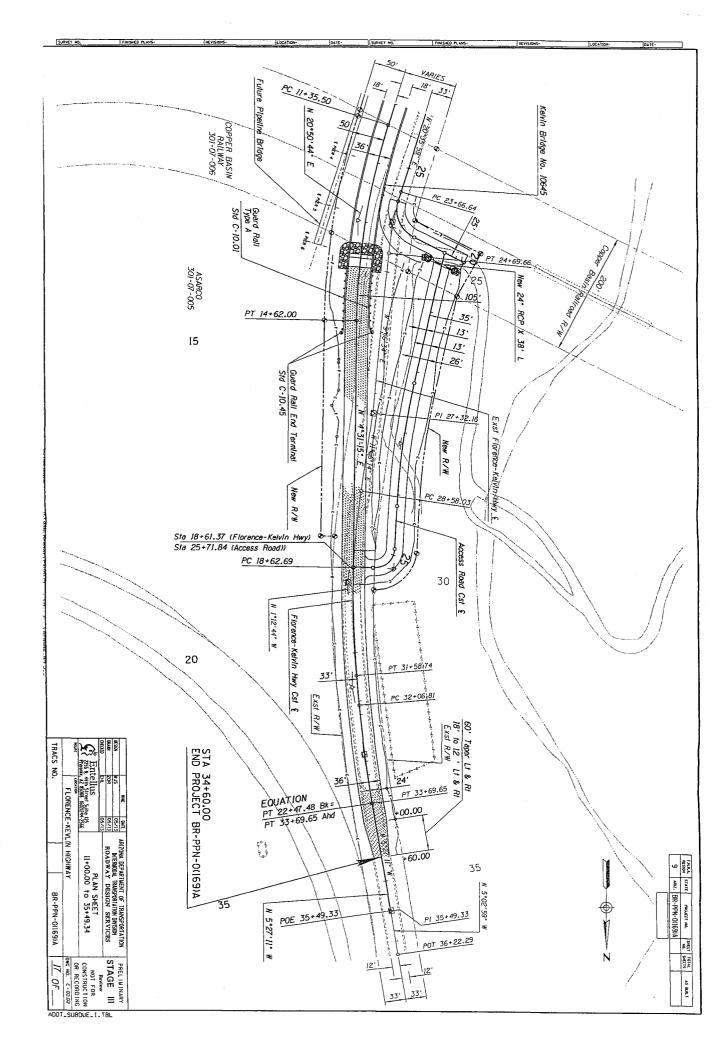


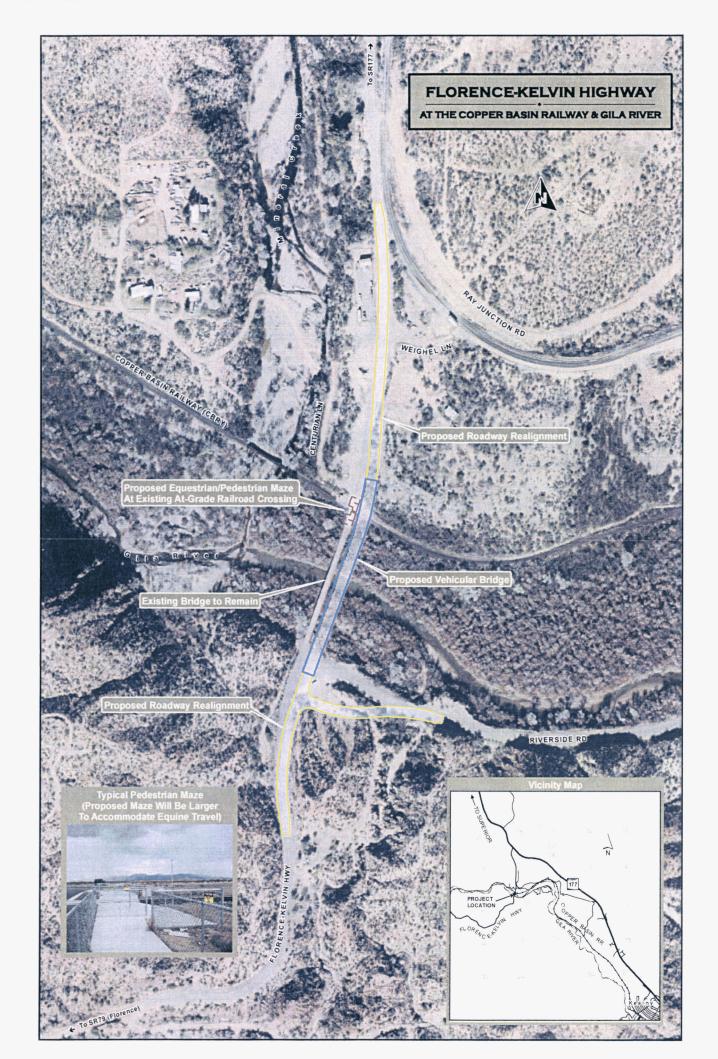
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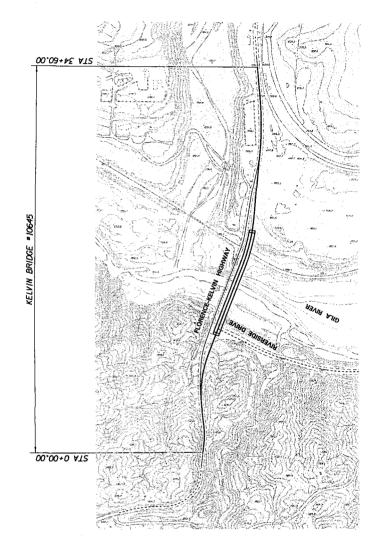
STAGE 111 DESIGN SUBMITTAL 60% COMPLETE July, 2013

STATE HIGHWAY FLORENCE-KELVIN HIGHWAY BR-PPN-0(169)A

INTERMODAL TRANSPORTATION DIVISION DEPARTMENT OF TRANSPORTATION

PROJECT PLANS

STATE OF ARIZONA



KELVIN BRIDGE #10645



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| G STANDARDS 2011 | | STANDARD | 8711 M-37 DELINEATORS IN-GROUND FOUNDATION DETAILS 8714 M-38 SOUARE STEEL POST BREAK-AWAY DELINEATOR | S-1 SHT [-S | S-1 SH7 3 | | 10/10 S-3 SHT OFFSETS, CLEARAMAY SIGN POST DESIGN) | 10/10 S-3 SHT 2 OFFICETS OF EARL STATEMENT OF THE STATEME | 1/10 5-3 SHT 3 DESCRIPTORY OF THE SIGN ON FREEWAYS | S-3 SH1 4 | | 9-50 | S-8 SH7 1 | S-8 SHT 2 S-8 SHT 3 | S-8 SH1 4 | 570 SH1 J Z & 3 SIGN INSTALLATION ON POLE TALLATION DETAIL TO PERFORATED POSTS 5704 SH2 SH1 J FREEWAY MILEPOST DETAILS | S-11 SHT 1 | S-11 SHT 2 S-11 SHT 3 | S-11 SHT 4 S-12 SHT 1 | S-12 SHT 2 | | S-14 SHT 2 | SHT 3 | S-15 SHT 2 DUDLEY FOLDING SIGN DUDLEY FOLDING SIGN | 2/02 C-1 SAND BARREL CRASH CUSHION | | 12/06 C-3 SHT 2 PRECAST CONCRETE BARRIER PIN AND 1202 ASSEMBLY NCHRIP 350 | 2/02 C-4 SHT I MEDIAN CROSSONER 2/02 C-4 SHT I MEDIAN CROSSONER | 2 IEC 1-2 | 1 INC 6-2 | 10702 C-5 SHT 2 APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER | | |
|-----------------------|---|----------|--|-------------|-----------|-----|--|--|--|-----------|--|---|---|--|-----------|--|--|--------------------------|--------------------------|---|--|------------|-------|--|------------------------------------|---|---|---|-----------|-----------|--|----------------------|------|
| EFFECTIVE AUGUST 2011 | SUBJECT: REVISION STANDARD SIGNING & MARKING DETAILS | SHT 1 | M-2 SHT 3 | 2 Z Z | | >-W | M-10 SHT I PAVEMENT | M-10 SHT 2 M-10 SHT 3 | M-12 | | M-15 SHT 1 PAVEMENT MARKING FOR FREEWAY ENTRANCE DAVID | 1/10 M-15 SHT 2 PAVEMENT MARKING FOR FREEWAY ENTDANCE CAME. | 10/10 M-15 SHT 3 PAVEMENT MARKING FOR EREGMAY TAYARD TO THE PRESENT TAYARD | 1/10 M-16 SHT I PARALLEL ACCELERATION LINEARINE WITH HOVE BYPASS PAYEMENT MARKING GOD FORTHWAY HOVE BYPASS | | M-17 | 6/08 M-19 CHT 1 RECESSED PAVEMENT MARKER DETAILS | SHI 2 | M-19 SHT 4 | 6/08 M-19 SHT 5 PAVEMENT MARKING TANDER UNDIVIDED HIGHWAYS 6/08 M-19 SHT 6 SFRIFS AN RETRANDED FOR LANDING HIGHWAYS | 6/08 M-19 SHT 7 SERIES 80 RETRO-REFIGURINAY SERIES 10 RETRO-REFIGURINAYS | M-19 SHT 8 | _ | M-20 SHTS 1 & 2 | M-22 SHT 1 | ſ | M-24 SHIS L& Z | M-26 SHT 2 | M-28 | M-30 | M-31 M-32 | M-33 M-35 M-35 | M-36 |

BR-PPN-0(169)A

ADOT STANDARD DRAWINGS
TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE DECEMBER 2012

| SUBJECT: SUBJECT: POLES AND LIGHTING DETAILS TYPE: A POLE TYPE: POLE TYPE: POLE ALUMINAL POSTS ALUMINAL POSTS | ALUMINUM TYPE 'H' POLE TYPE 'Y POLE ELLIPTICAL BASE DETAILS TYPE 'Y POLE SOUARE BASE TYPE 'Y POLE ROUND POLE / SOUARE BASE | PEGESTRIAM WOUNT NOW THAT IS THAT IS PROLET PROLET FORWARD WOUNT NOW THAT IS AND STREAM WOUNT NOW THAT IS AND STREAM WOUNT NOW THAT IS AND STREAM AND STREAM AND STREAM AND STREAM AND STREAM AND WOLES STORMAL WAST ARM CONNECTION DETAIL TYPE K AND 0 POLES STORMAL WAST ARM CONNECTION DETAIL TYPE K AND 0 POLES STORMAL WAST ARM CONNECTION DETAIL TYPE K AND R POLES STORMAL WAST ARM CONNECTION DETAIL TYPE WAND POLES STORMAL WAST ARM TOWN DETAIL TYPE WAND WELES TOWN DETAIL TYPE WAST AND STREAM AND |
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| SUBJECT: ABBREVIATIONS, SYMBOLS AND DETAILS ABBREVIATIONS, SYMBOLS AND DEFINITIONS STANDARD ABBREVIATIONS PLAN SYMBOLS PLAN SYMBOLS PLAN SYMBOLS STANDARD DEFINITIONS STANDARD DEFINITIONS | LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX DETAILS REPLACEMENT LID SIZING FOR EXITING NO. 8 AND NO. 7 PULL BOXES TYPICAL PULL BOX INSTALATION AND WIRING DETAILS TYPICAL PULL BOX INSTALATION AND WIRING DETAILS TYPICAL PULL BOX INSTALATION AND WIRING DETAILS CONDULT EXPRESSION TOWER AND TRENH REQUIREMENTS CONDULT GOVER HOSE AND THE COLOR CODES FROM TO BARRIER JUNCTION BOX DETAILS FOR DETAILS OF BULL BOX LID FRAY DETAILS OF BUL | MAN D N D N D N D N D N D N D N D N D N D |
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| ADDT STANDARD BRANINGS | PEVISION DATES and STANDARD NO.'s REVIEW | RAME STORM & LIGHTING STANDARDS | BR PPN-0(169)A |

ADOT STANDARD DRAWINGS
TRAFFIC SIGNAL AND LIGHTING STANDARDS
SHEET 2 OF 2)
EFFECTIVE DECEMBER 2012

| SUBJECT: SPAN WIRE SIGNALS AND LIGHTING DETAILS SPAN WIRE SIGNALS AND LIGHTING GENERAL NOTES GENERAL NOTES GENERAL NOTES STEEL POLE TYPICAL DETAILS STEEL POLE TYPICAL DETAILS STEEL POLE TYPICAL DETAILS STEEL POLE TYPICAL DETAILS WOOD POLE TYPICAL DETAILS TYPICAL DETAILS TYPICAL DETAILS TYPICAL DETAILS STANDAL AND STANDS AND POLE TYPICAL DETAILS STORMER AND BALANCE ADJUSTER TYPICAL DETAILS AND TYPICAL DETAILS AND TYPICAL DETAILS STORMER AND BAND TYPICAL DETAILS AND TYPICAL DETAILS AND TYPICAL DETAILS STORMER AND TYPICAL DETAILS STORMER STORM HANGER TYPICAL DETAILS AND TYPICAL DETAILS STORMER STORMER TYPICAL DETAILS FOLGE HANGER TYPICAL DETAILS FOLGE HANGER TOP AND EXPENSION DETAILS WEATHERAD TYPICAL DETAILS WEATHERAD TYPICAL DETAILS | |
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| STANDARD NUMBER 1.5. 7 7-1 SHT 7 7-1 SHT 3 7-1 SHT 3 7-1 SHT 3 7-2 SHT 3 7-2 SHT 3 7-3 SHT 3 7-3 SHT 3 7-4 SHT 3 8-5 SHT 1 8-5 SHT 1 8-5 SHT 1 8-7 SHT 2 8-6 SHT 2 8-6 SHT 2 8-7 SHT 2 8-6 SHT 2 8-7 SHT 3 8- | 9-8 9-8 9-9 10-1 10-3 10-4 11-1 11-1 11-1 11-1 11-1 11-1 11-1 |
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| STRAIGTHE DETAIL DRAWINGS | | PIER COLVER REMINALS - 15 SECT MET - 2 SECT MET - 3 SECT | CULVERT HEADWAL Sulvert Headwal Sulvert Headwal | ULVERT HEADWAL ULVERT HEADWAL ULVERT HEADWAL ULVERT HEADWAL | ULVERT HEADWAL ULVERT HEADWAL ULVERT HEADWAL | ULVERT HEADWAL ULVERT HEADWAL ULVERT HEADWAL ULVERT HEADWAL | ULVERT HEADWAL ULVERT KEADWAL ULVERT HEADWAL ULVERT HEADWAL ULVERT HEADWALL ULVERT HEADWALL | | RETAINING BALL HERFORCES CONCRETE CAPTLERS RETAINING BALL HERFORCES CONCRETE CAPTLERS RETAINING MALL HERFORCES CAPTLERS | | SOUND BARBLER MATT. MESONALD SOUND BARBLER MATT. ACCOUNTS TO SOUND BARBLER MATT. CONCERS. | | WED MASS STRETURE 1190 SIREOU ELEVATION & NOTES WED MASS STRETURE 1190 SIREOU ELEVATION & NOTES WED MASS STRETURE 1190 SIREOU ELEVATION EN ELEVATION AND ESTRETURE CONTESTION ELEVATION EL | MEDIAM SIGN STRUCTURE COME SIDED) - LICHT SUPPORT AND MISE, DETAILS | THE ACT STRATE THESE THE WILL ACT STRATE THE SECOND TO THE SECOND | VARIABLE RESSARE SION - TUBLAR FARM. F. LEGI SUPPORT AND MISC., DETAILS WHERE RESSARE SION - TUBLAR FARM. F. LEGI SUPPORT AND MISC., DETAILS WHERE RESSARE SION - TUBLAR FARM. F. DAWNING RESTARE SION - TUBLAR FARM. FOR MISC. DETAILS WHERE RESSARE SION - TUBLAR FARM. WORNING RESTARE SION - TUBLAR FARM. WORNING RESTARE SION - TUBLAR FARM. WORNING RESTARE SION - TUBLAR FARM. WORNING RETAILS DOWN RESTARE SION - TUBLAR FARM. | |
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| REVISION DATE | DRAINAGE | 22222222 | 222 | 22222 | 222 | 2222 | 22222 | RETAINING | 9/10 9/10 9/10 9/10 9/10 | SOUND BARR | 233 | ۷ | 27.70 27.00 27.70 27.00 27.00 27.00 27.00 27.00 | 3 2 | | 8,02 8,02 1,000 1, | |
| STRUCTURE OFTALL DRAWINGS SUBJECT | | F-SANTE MICH COMPRETE BARRIER AND FRANCE TO THE MICH COMPRETE BARRIER AND FRANCE TO THE MICH COMPRETE BARRIER AND FRANCE FAIL ING STITUL OF THE MICH COMPRETE BARRIER AND FRANCE FAIL ING STILL ING | | Preponent such expensions and a preparation of the control of the | | DECK JOHN TSSEURY - COMPRESSION SEAL DECK JOHN TSSEURY - STRIP SEAL | STRUCTURAL EXEMMITON - PAVIENT LIMITS STRUCTURE BACKFILL - PAVIENT LIMITS | | HE INFORCED CONCRETOR OF THE PROPERTY OF THE P | 2) RE INFORCED CONCRETE 2) RE INFORCED CONCRETE 2) PETINGONIA CONCRETE | THE INFORCED CONCRETE THE INFORCED CONCRETE | HE INFORCED CONDETE BOX CLUYERS - 15' X 14' EQUIPMENT PASS (0' - 20' FILLS) RE INFORCED CONDETE BOX CLUYERS - OUTLET BINDS - SEEM 0' 10 20' - CLUYERS HEIGH RE INFORCED CONDETE BOX CLUYERS - OUTLET BINDS - SEEM O' 10' - CLUYERS HEIGH | REPROFESS CHARGES OF ALLESTS AND ALLEST HAND. REPROFESS CHARGES OF ALLESTS AND ALLESTS AN | RE INFORCED CONCRETE RE INFORCED CONCRETE | RE IN GREED CONCRETE RE IN GREED CONCRETE RE IN GREED CONCRETE P. P. CLU VERT HE ADMA P. P. CLU VERT HEADMA P. P. CLU VERT | PINE CHARGE REMAILS - RIGHT MASE IN THE SOFT PARTY REMAILS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAILS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAILS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAILS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY RESOURCE - 1 SOFT PARTY REMAINS - RIGHT MASE ONLY REMAINS - RIG | |
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| REVISION DATE | 1 2 E | 3/03 3/03 3/03 6/03 6/03 6/03 6/03 4/10 | APPROACHES | 12/07 12/07 12/07 9/09 | DECK JI | 6/09 12/09 12/09 | SUBSTRUCTURE 11/12 11/12 | DRAINAGE | 2222222 | 222 | 2222 | 27.2 | 222222222 | 222 | | 222222 | |

FAMEL STATE PROJECT NO. NO. SHEETS TOTAL NO. SHEETS OF S

| Sheet Type Locallon Plan & Elevallon | General Notes & Typical Section Quantites & Details | Construction Work Zone Requirements Foundation Data Foundation Plan | Foundation Details Abutment I Plan and Elevation Abutment 2 Plan and Flausting | Abutment Details (1 of 3) Wingwall Details | Abulment Details (2 of 3) Abulment Details (3 of 3) | rier No. 1, 2, 3 & 5 Pier Plans, Elevation & Details (Fixed) Pier No. 4 Pier Plans, Elevation & Details (EXP.) Pier No. 6, 7 Pier Plans, Elevation & Details (Fixed) Pier Chumo Benfanchan | Pler Details Pler Details Pler Details (Fixed) | Deck Plan Deck Defalls Deck Section & Defalls | Leck Defails Girder Defails Miscellaneaus Deck Defails Barrier - Defails Miscellaneaus Defails Standard Drawings (6) |
|---|--|---|--|--|---|--|--|--|---|
| DWG. No. STRUCTURAL | 1 1 | 1 1 1 | 1 1 1 | 1 1 | 1 1 | | | | |
| Sheet No. | 28 8 | 83A 84-813 814 | | | | 823 824 825 | 826 827 828 829-830 | B31 B32 B32 B33 | B34-B37 B38 B39 B40 SD 1.01-SD 5.02 |
| Sheet Type Face Sheet ADOT Standard Drawlinds | Design Sheet Typical Roadway Sections | Barrier Summary Sheet Detail Sheets | Geometry Control Sheets | Geometry Layout and Data Sneets Florence-Kelvin Hwy & Riverside Drive Plan Sheets | Florence-Kelvin Hwy Profile Sheets Riverside Drive Profile Sheet Riverside Driverside Sheet | betaur a Access road rian sheet Detaur Road Profile Sheets Access Road Profile Sheet | Traffic Control Notes Construction Stage (3) | Construction Sequence Traffic Control General Note Plan Traffic Control Plan | Povement Marking Ganeral Notes & Quantities Signing General Notes Povement Marking & Signing Plans |
| DWG. NO. GENERAL 14. 18. 1C. 1D | 6-01.01 - 6-01.02 6-01.03 - 6-01.06 | 6-01.07 6-01.08 | CIVIL C-01.01 | C-01.02 - C-01.06 C-02.01 - C-02.02 | C-03.03 - C-02.04 C-03.05 C-03.01 -C-03.02 | C-03.03 - C-03.04 C-03.05 | TRAFFIC 7-01.01 7-01.02 - T-01.04 | | |
| Sheet No. I IA-ID | 2-3 4-7 | ø on | Q | 11-15 16-17 | 20 20 21-22 | 23-24 25 | | 32 33 | |

STAGE II

Review
NOT FOR
CONSTRUCTIO
OR RECORDIT

DESIGN SHEET

| Color | Colo

MIDPOINT OF PROJECT

Central Zone X= 5,000 Y= 5,000

LENGTH OF PROJECT

Sta 0+00.00 to 2+41.27 Bk = 241.27. Sta 1+22.12 And to 22+47.48 Bk = 2125.36 Sta 33+69.65 And to 34+60.00 = 90.35. Gross & Nel Length = 2,456.98 - 0.46 Wiles

7-AWA. 5 5 A.1 2 PRO-ECT NO. SPECT 101 AS BUAT 101 AS

DESIGN DATA

=35 MPH Min Design Speed

GENERAL NOTES

The coadway plans have been designed utilizing and current revisions.

In current revisions, and the proper parties of forces in accordance with the current edition of the signing and Marking Standard Drawings (M&S-Serles) and striping plans.

All work shall be done within the existing right-of-way. The average project elevation is 1,810 ft.

Sta 11+78.52 Bk= Sta 0+55.15 And Sta 22+47.48 Bk= Sta 33+69.65 And

EQUATIONS:

Florence - Kelvin Hwy Florence - Kelvin Hwy

3. AC (MISC, STRUCT)

5. AB ICIASS 2)

Subgrade

Total Thickness = 8"

SECTION NO. 1

2" AC IMISC. STRUCTI

Subgrade

Total Thickness = 2° SECTION NO. 2

Existing Roadway Surface

PAVEMENT STRUCTURAL SECTION SECTION NO. 3

3. AC (MISC. STRUCT)

Total Thickness = 3° SECTION NO. 4

STAGE III
REVIEW
NOT FOR
CONSTRUCTIO
OR RECORD IN

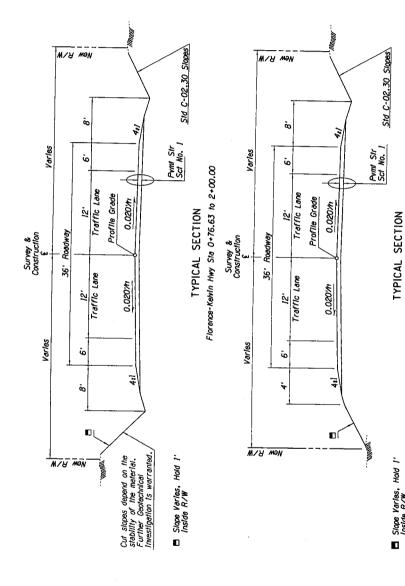
FLORENCE-KEVLIN HIGHWAY

Entellus 25713 April 125 A

ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES DESIGN SHEET

05/13 05/13 05/13

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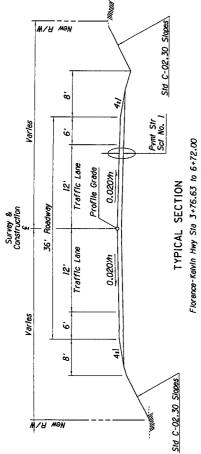


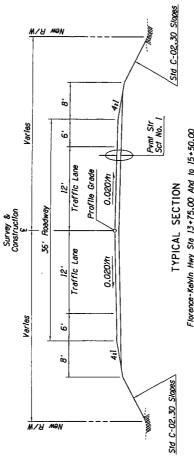
STAGE III
RANIAW
NOT FOR
CONSTRUCTION
OR RECORDING ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION BYISION ROADWAY DESIGN SERVICES DESIGN SHEET TYPICAL SECTIONS FLORENCE-KEVLIN HIGHWAY

■ Slope Varies, Hold I' Inside R/W

Florence-Kelvin Hwy Sia 2+00.00 Ahd to 3+76.63

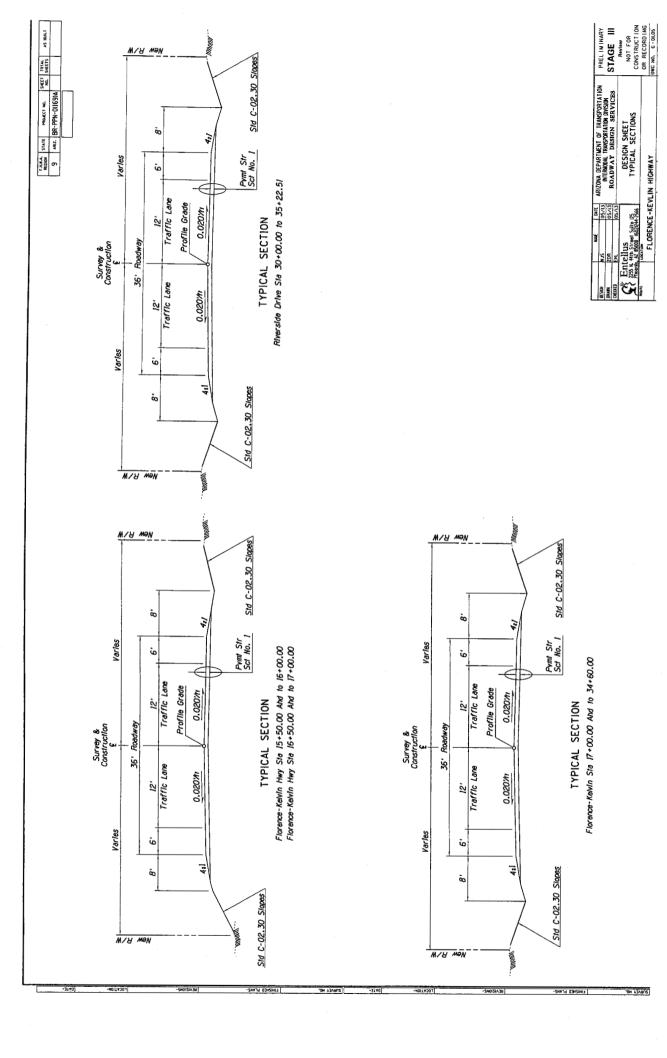
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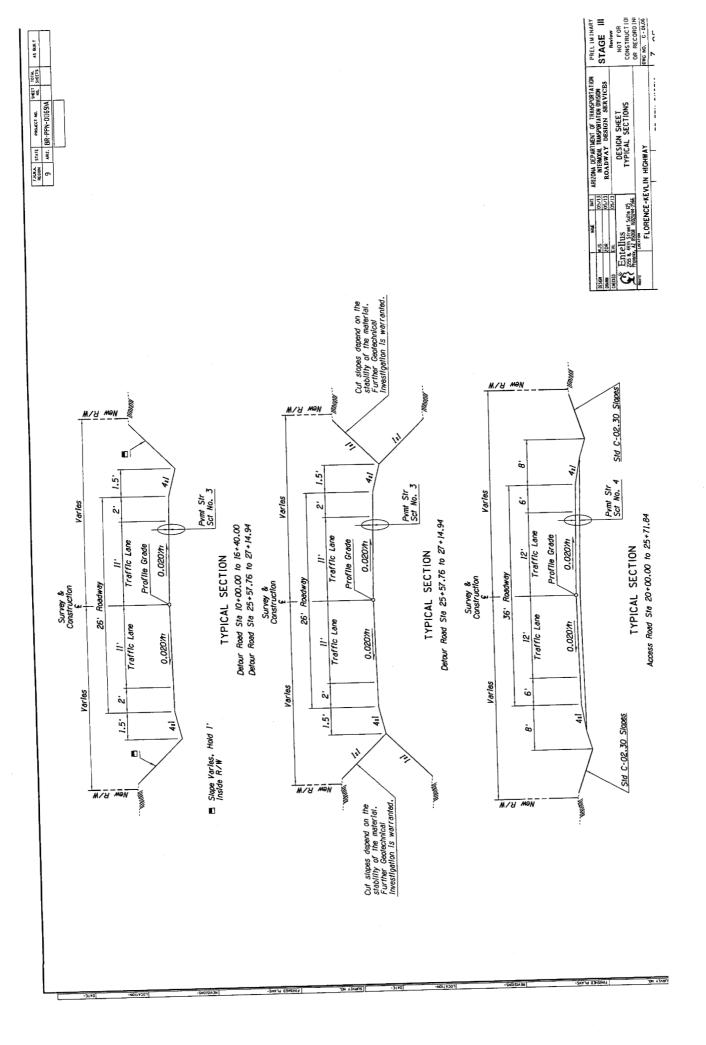


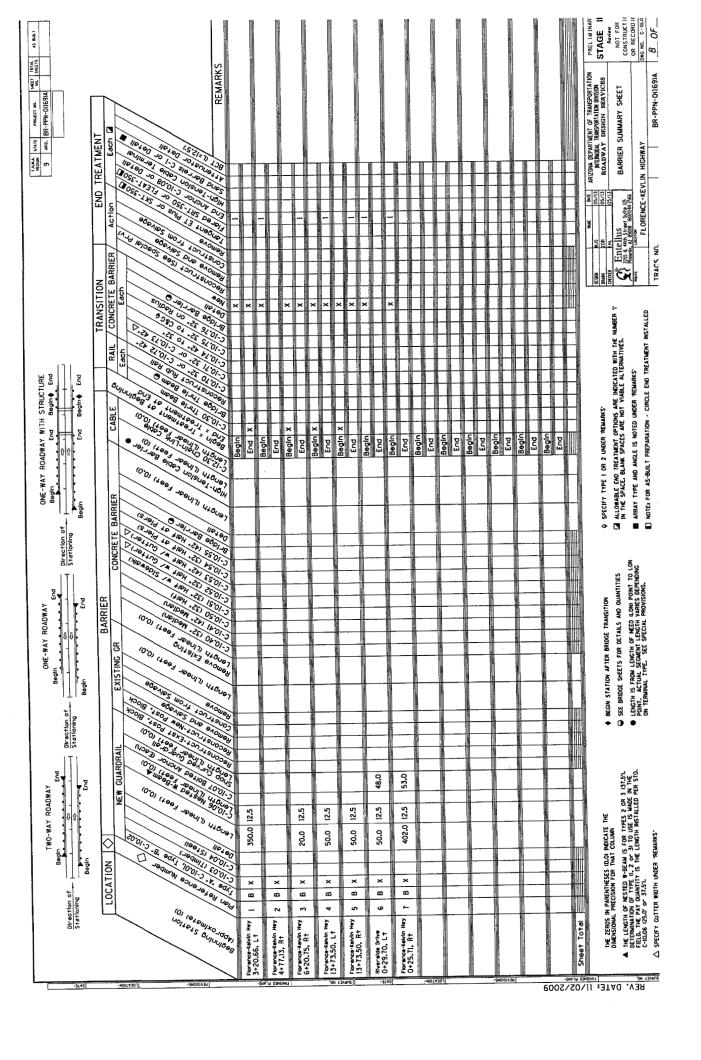


Florence-Kelvin Hwy Sta 13+75.00 And to 15+50.00 Florence-Kelvin Hwy Sta 16+25.00 And to 16+50.00

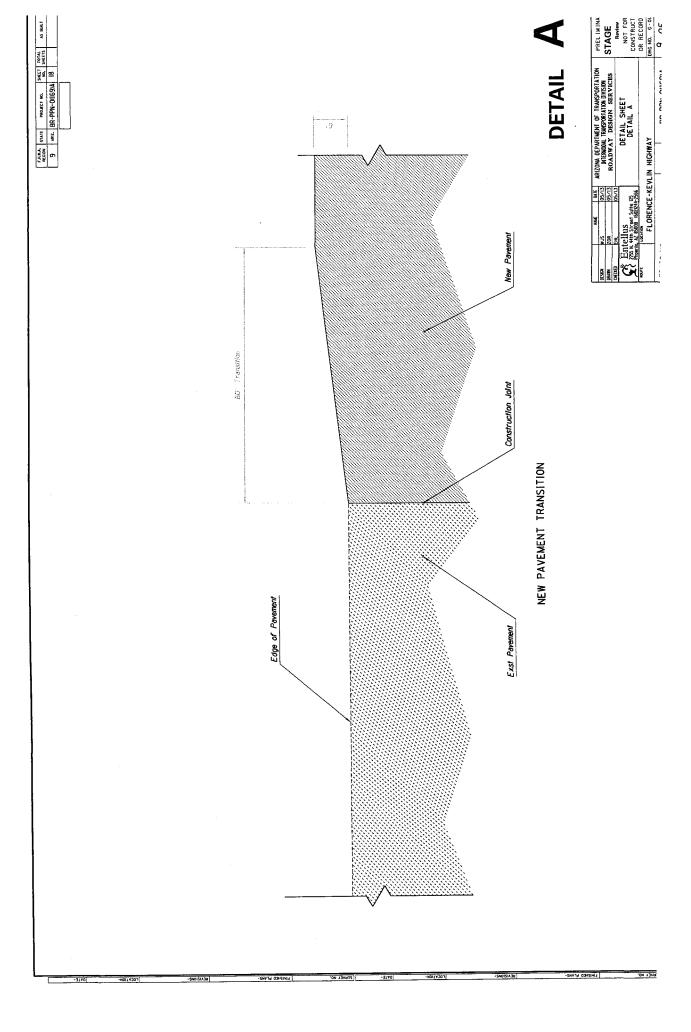
| | FREL IMINARY | STAGE | | NOT FOR | CONSTRUCT 10 | OR RECORDIN | DWG NO. C - 01.04 |
|-------------------------------------|---|-------------------------|-----------------------|--------------|---------------------|-------------|-------------------------|
| ABIZONA DEBABTACAT OF TOASCOCKATION | INTERNITION TO MAKE AND | BOADWAY DESIGN CEDVICES | MOTOR DESIGN SERVICES | DESIGN SHEET | I YPICAL SECTIONS | | ILIN HIGHWAY |
| 3140 3445 | 05/13 | 05/13 | 05/13 | ST | B5008 (602)244-2566 | ATION | FLORENCE-KEVLIN HIGHWAY |
| | SCHO HOUS | ORATE (ZOR | CHECKED | I Entelli | HOSPIK, 42 | 31noe | |

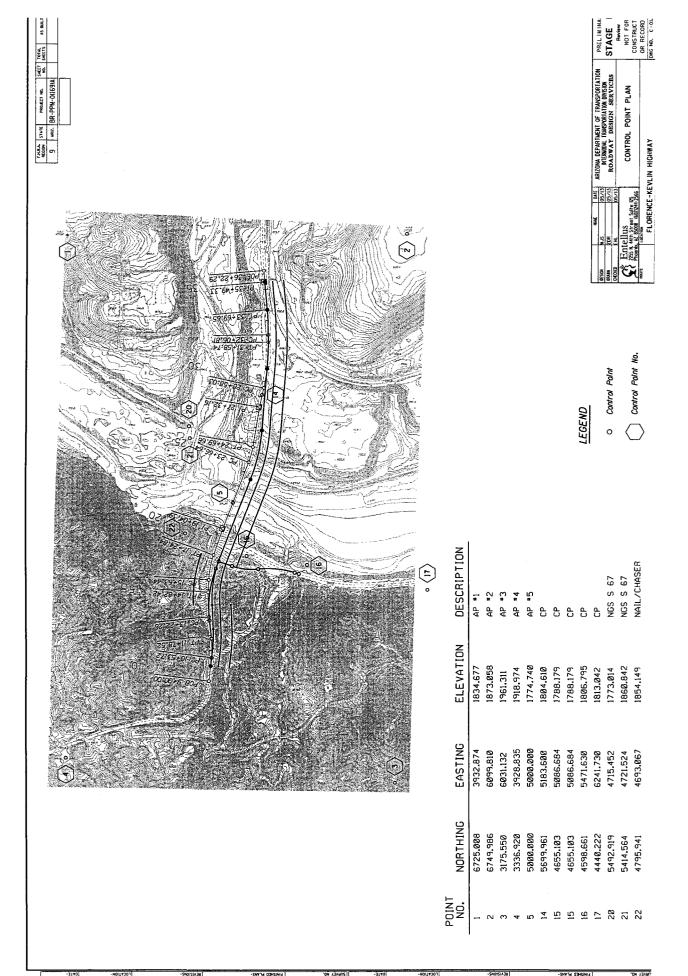


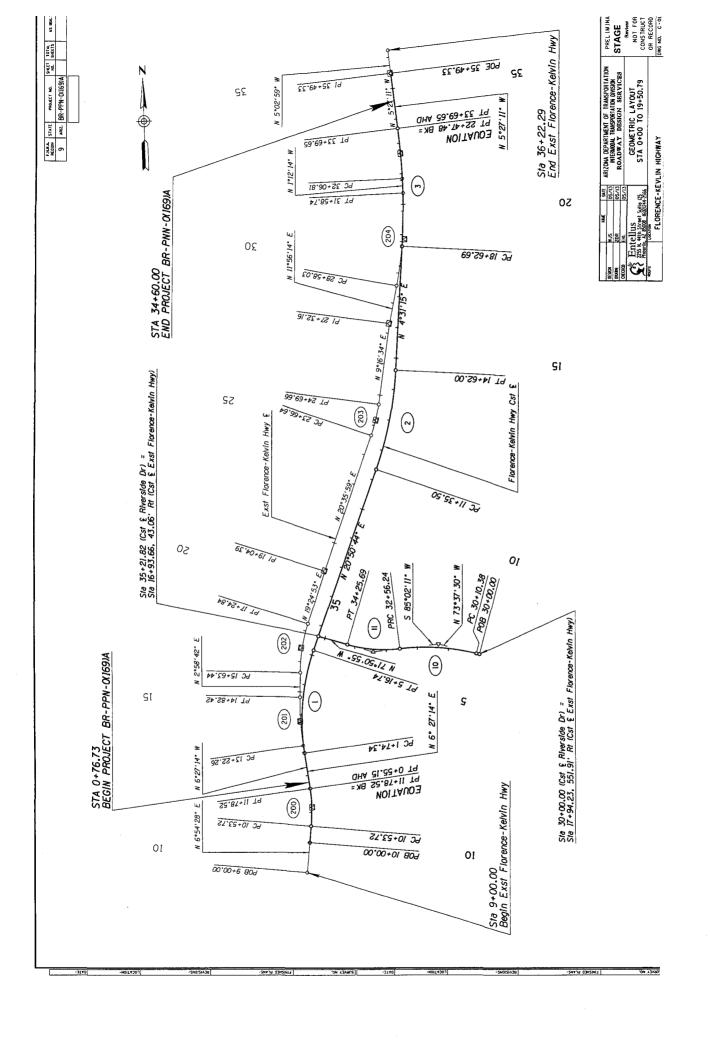


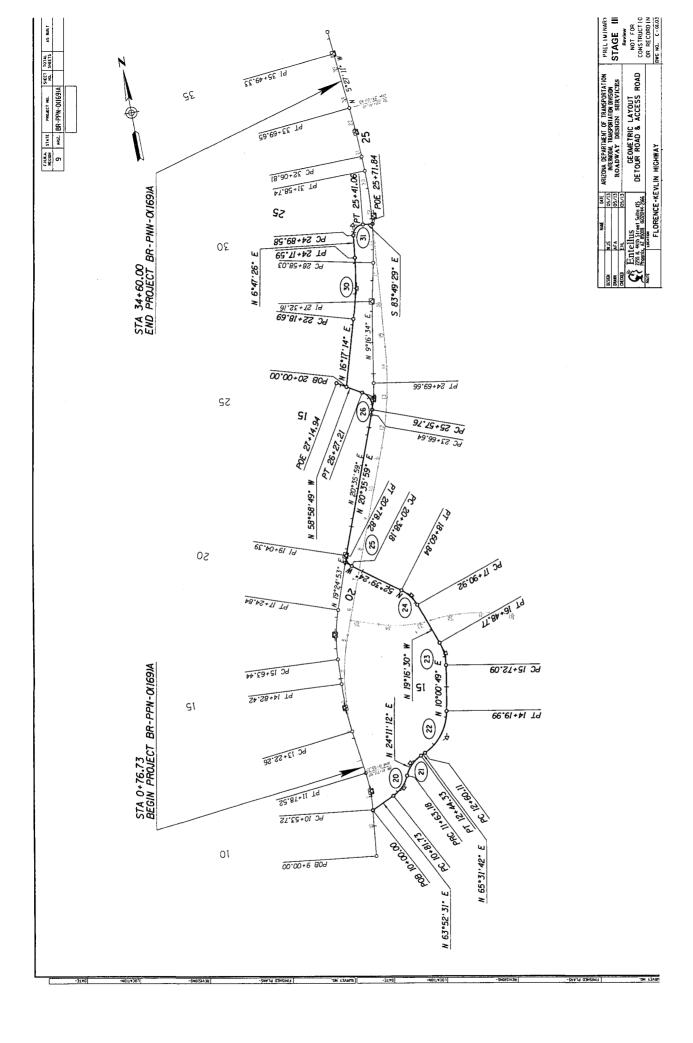


| 1.04.4. 51.71 7.00.651 0.00. | O CONTRACTOR ON TO STAND ON TO | O III | Install 25 CY 18' Riprop Gradation Section 810-2,03, e.1.1 and 81 | Install 25 CY (8° Ripress Credestror Section 810-203. • RI Install 25 CY (8° Ripress Credestror Section 810-203. • LT | | | ARIZONA DEPARTUEN ROADWAY D NEW PIPE SU VLIN HIGHWAY |
|--|--|---|--|--|------------------|-------|--|
| - CORRUGATED STEEL PIPE - CORRUGATED STEEL PIPE - CORRUGATED ALUMINUM PIPE - NOW-REINFORCED CONNETT F PIPE - NOW-REINFORCED CAST-IN-P-ALE CONNETT PIPE - CORRUGATED IND-ACENSTITY POLYTHYTER PLASTIC PIPE - NOW-REINFORCED CAST-IN-P-ALE CONNETT PIPE - TORRUGATED IND-ACENSTITY POLYTHYTER PLASTIC PIPE - NOW-REINFORCED CAST-IN-P-ALENT PIPE - NOW-REINFORCED PIPE - | Headwall & Lunction Structure Cate Residual Marinole, the deadwall & Lunction Structure Fr. Grave Fr. Grave Fr. Grave Grave | | | 1772.0 | 1187.5 | | RESIDENCE - REAL PROPERTY OF A PARTY OF A PA |
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| HOTE, PROSENCTED ARE THOSE PIPE OPTIONS SELECTED ARE THOSE ALLORABLE PIPE COPTONS ARE NOICE ELTTEN Y'N THE SPACE, BLANK SALLORABLE ALTERNATES. | C SP (C SP (C)S)))))))))))))))))))))))))))))))) | 12/3/2/3/2/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3 | = = | | | | C PIPE CORRUGATION A 2½x/½ D 6x/2 S S S S S S C Orr C 9x2½ E 9x2½ |
| NOTE: NOTE: FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWINGS C-13.10 AND C-13.15 | In to to the total of the total | 00005 4 | 1 12 38 A 0.052 2 24 77 13 | 3 24 1181 2 36 130 | 5 24 152 | | FILL HEIGHT RANGE TABLE (F+.) NO. 1 2 3 4 5 6 7 8 9 10 11 12 NO. 1 2 3 5 8 1 11 15 20 25 90 40 55 70 90 (F+.) |
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FAMAL STATE PROJECT NO. SHEET TOTAL AS BUILT RECIOUS SHEETS

Centerline Geometric Data Sheet Use this sheet ONLY If the project was surveyed

| Transcript Laft Transcript | PLAN PEF NO | DESCRIPTION | Point | STATION | COORDINATES | NATES | Total Daita | Spiral Total | o tail | 0+0 | + | · | Spiral Main or | ain or Cit | Circular Curve | \mathbf{I} | 1 | 1 | | Spiral Curye | | |
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FANDA STATE PROCEST NO. 1967 SECTIONAL STATE AS BART.

9 AUG. BR-PPN-0(169)A

Centerline Geometric Data Sheet Use this sheet ONLY if the project was surveyed

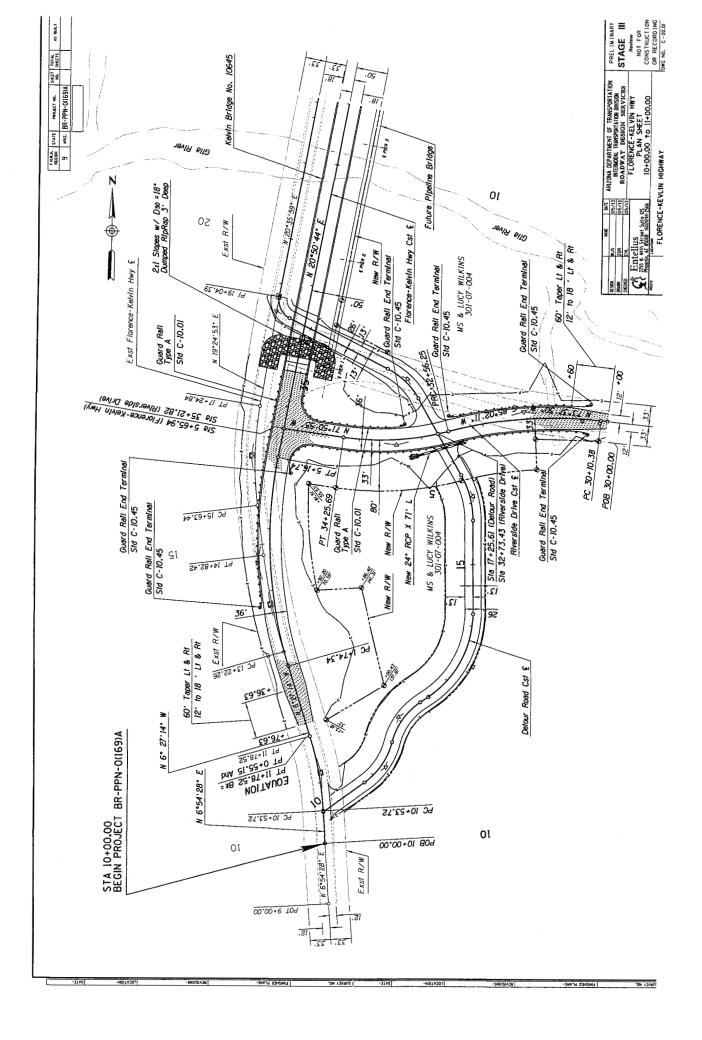
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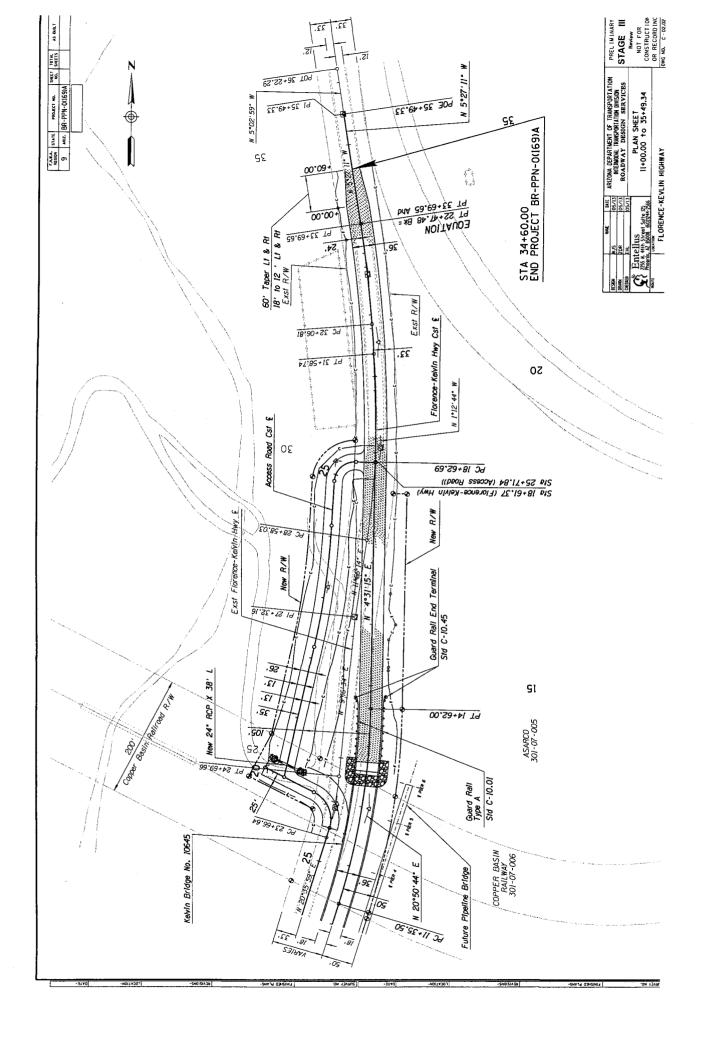
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| | I MICHIEL COLORS | _ | | | | | | _ | | | - | _ | _ | _ | ~ | _ | • | | | |

All Coordinates Are Ground Coordinates and All Bearings Are Grid Bearings
All bearings and angles have been rounded to the nearest second.
Use the control points provided and their respective state plane coordinates to re-estabilsh the centerline of each roadway.

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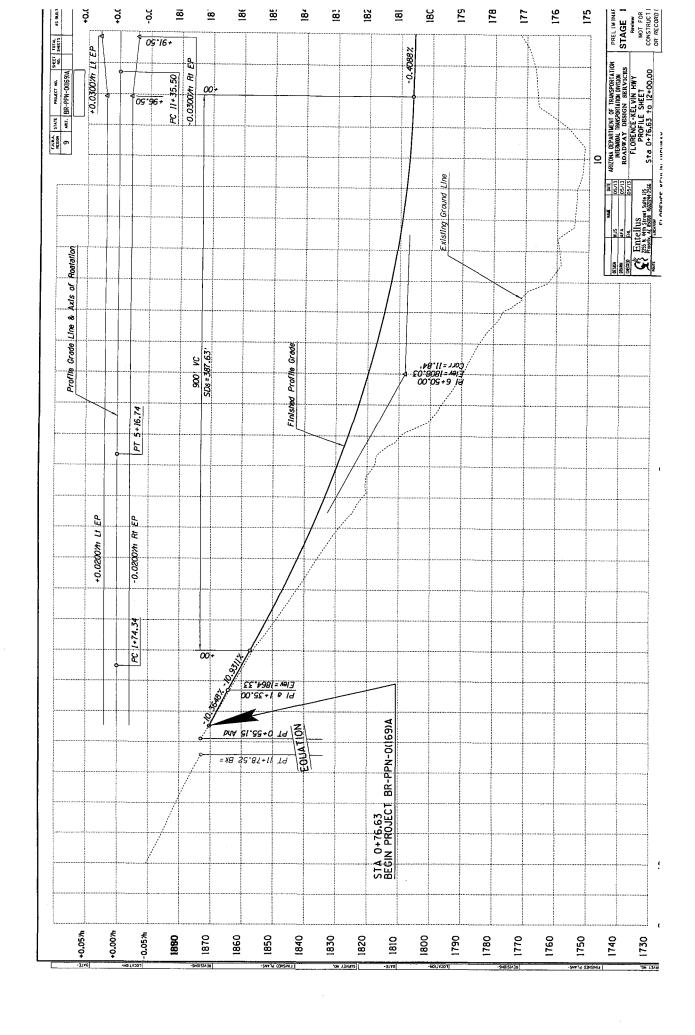
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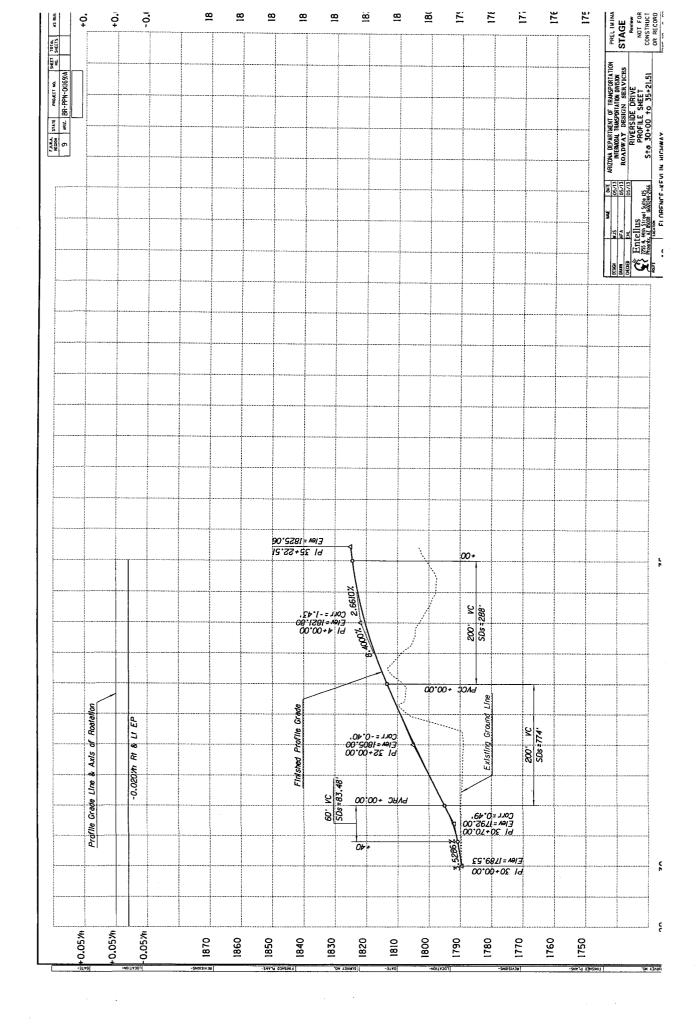
Centerline Geometric Data Sheet Use this sheet ONLY if the project was surveyed

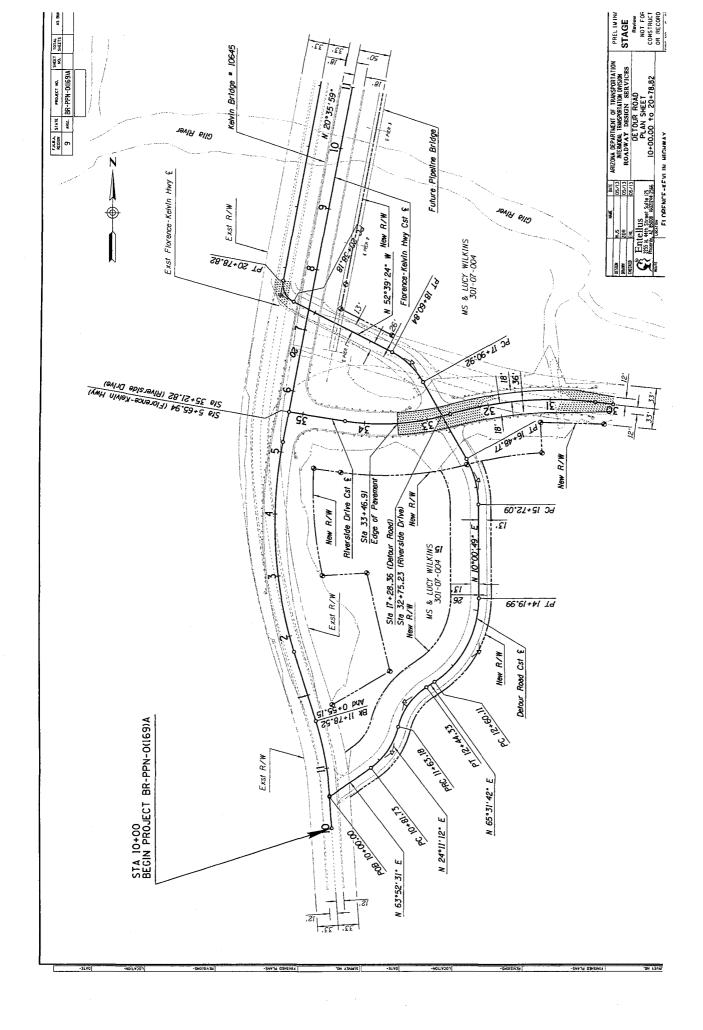
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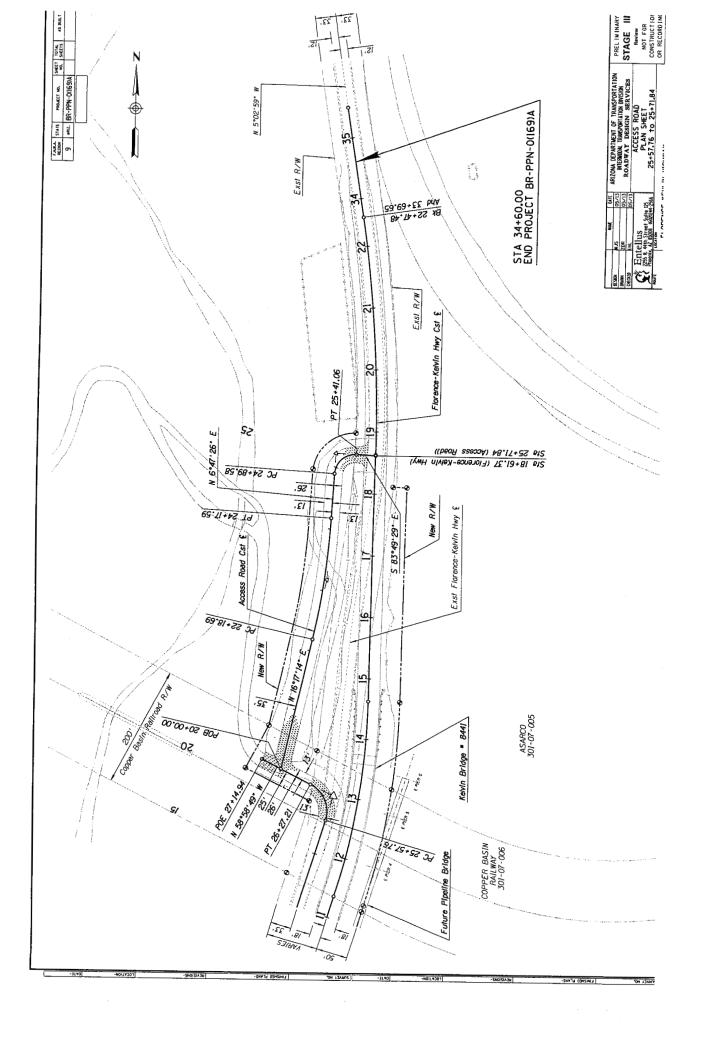
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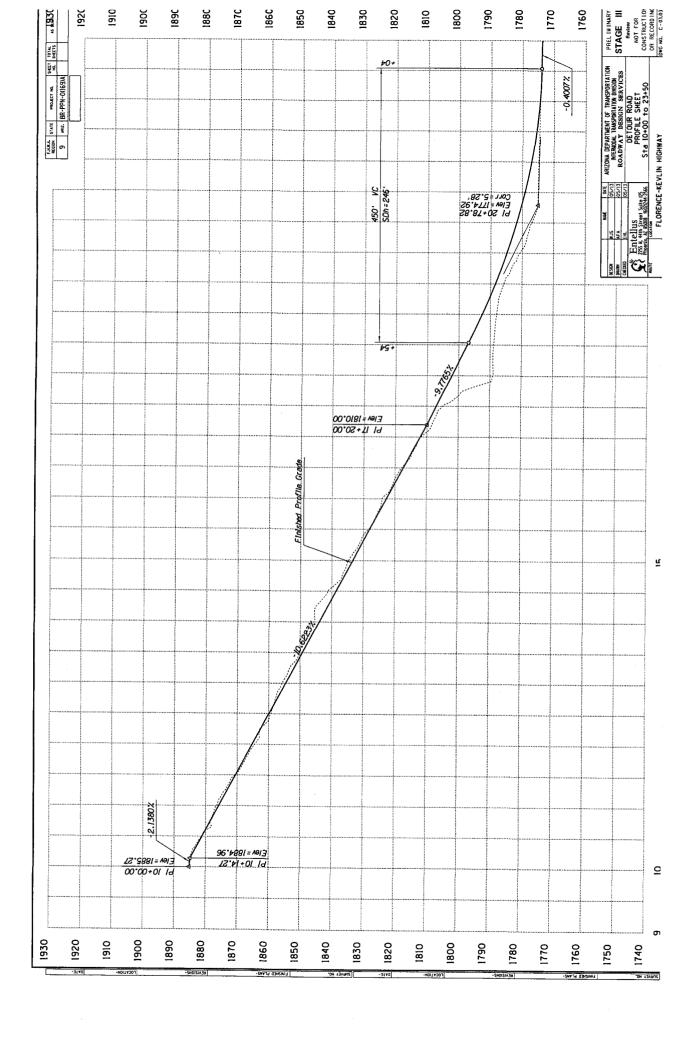
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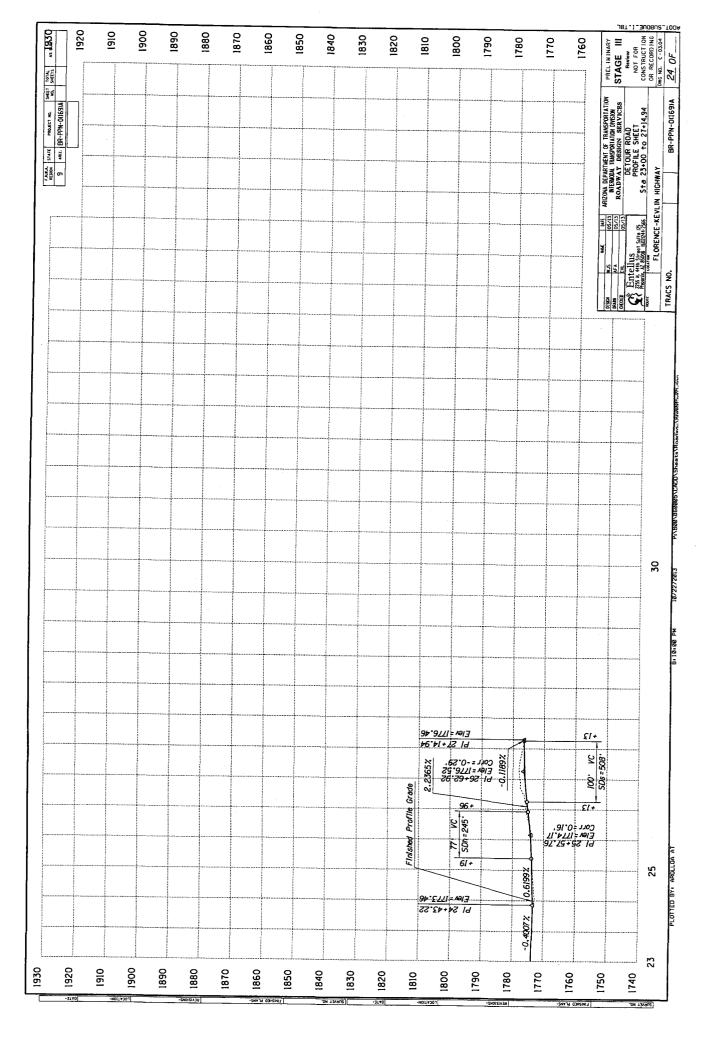


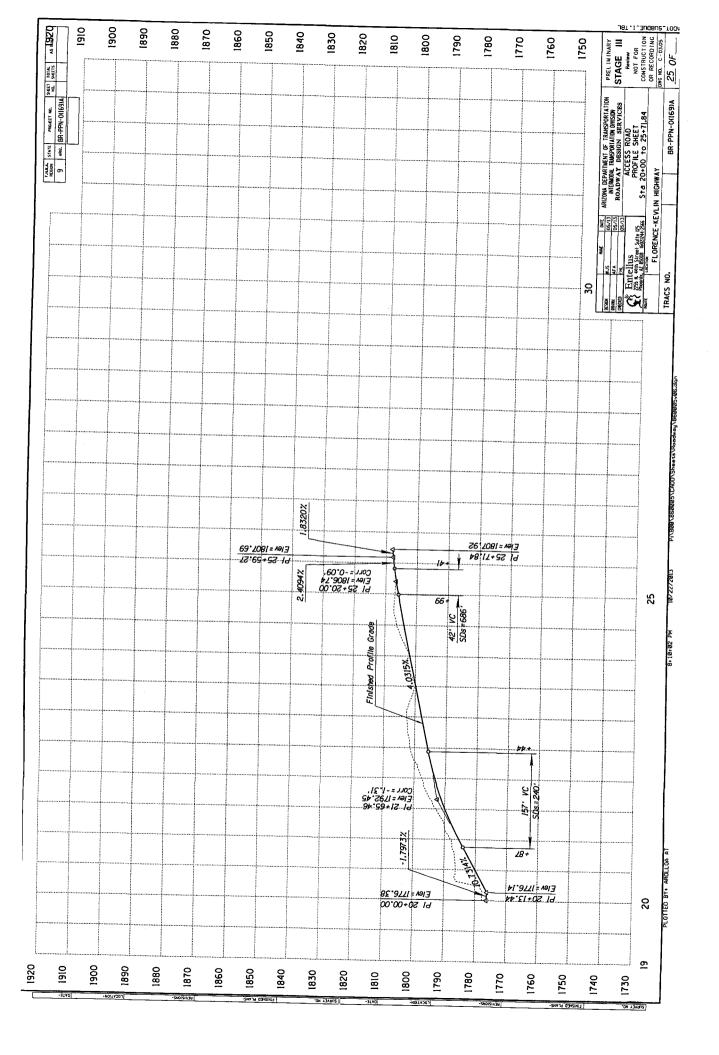












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TRAFFIC CONTROL NOTES

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- THE TRAFFIC CONTROL PLANS REPRESENT A SUGGESTED METHOD FOR TRAFFIC CONTROL DIGING CONSTRUCTION. THE CONTROL PREPARE AMOTHER TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION OID F THE STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO APPROVAL OF THE ENGINEER BEFORE BEGINNING CONSTRUCTION. TRAFFIC CONTROL PLANS ARE TO BE PREPARED IN ACCORDANCE WITH THE MUTCO PART VI AND ADDI SUPPLEMENT TO PART VI.
- CORDINATION WILL BE REQUIRED WITH ADJACENT CONSTRUCTION PROJECTS. THE ENGINEER SHALL UTTIMATELY DECIDE THE APPROPRIATE WORK ACTIVITIES IN ORDER TO COORDINATE TRAFFIC CONTROL.
- ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE ENGINEER.
- 4. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON ALL EXISTING LANES ON WEEKENDS. ON HOLIDAYS, NIGHTS AND AS DIRECTED BY THE ENGINEER.
- 5. ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, RELOCATED OR COVERED IN PLACE, AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL STORE AND RELINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY THE ENGINEER.
- THE RETRO-REFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL WEET THE CRITERIA ESTABLISHED IN SECTION 1007 OF THE ADOT STANDARD SPECIFICATIONS.
- 7. ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE NOTED.
- S. FOR SIGNS INSTALLED ON EMBEDDED POSTS, SIGN WOUNTING HEIGHT IS A MINIMUM OF 7 FEET SEAS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PANEMENT. FOR SIGNS INSTALED ON SPRING OR RIGID STANDS, SIGN MOUNTING HEIGHT IS A MINIMUM OF I FOOT ABOVE THE PAYEMENT.
- FOR SIGNS INSTALLED ON EMBEDDED POSTS, THE NEAREST EDGE OR CORNER OF A SIGN SHOULD BE 12 FEET FROM THE NEAREST EDGE OF PAVEMENT.
- 10. EMBEDDED POSTS MAY BE USED IN PLACE OF SPRING OR RIGID SIGN STANDS, AS LONG AS THEY ARE NOT PLACED THROUGH NEW PAVEMENT.
- II. TWO FLAGS SHALL BE WOUNTED ON TOP OF ALL CONSTRUCTION SIGNS EXCEPT THE "END OF WORK THANK YOU" SIGN. TYPE "A" FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHTTIME CONSTRUCTION SIGNS EXCEPT THE "END OF WORK THANK YOU" SIGN.
- 12. CONSTRUCTION SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SOONER BIT THEY MUST BE COVERED OR TURNING PROM TRAFFIC. THE COST FOR COVERING OR TURNING THEN SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER COMPLETION OF THE CONSTRUCTION ACTIVITIES.
 - 13. WHEN TRAFFIC CONTROL DEVICES ARE NOT IN USE, THEY SHALL BE MOVED AT LEAST 30 FEET FROM THE ROADWAY.
- 14. DRUMS, TYPE 2 BARRICADES AND VERTICAL PANELS SHALL BE PLACED 40 FEET ON CENTER IN TAPERS AND 80 FEET ON CENTER IN TANGENTS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.
- 15. THE CONTRACTOR WAY SUBSTITUTE TYPE I BARRICADES FOR TYPE 2 BARRICADES AS LONG AS THE REFLECTIVE AREA ON THE TOP PANEL OF THE TYPE I BARRICADE IS EQUIVALENT OR GREATER THAN THE REFLECTIVE AREA OF A TYPE 2 BARRICADE.
- 16. A TYPE "C" STEAD"-BURNING YELLOW LIGHT SHALL BE MOUNTED ON EVERY DRUM, BARRICADE, ON VERTICAL PANEL IN TAPERS, AND ON ALTERNATING DRUMS, BARRICADES, ON VERTICAL PANELS IN TAMORNIS.
- IT. DURING WIGHTTIME, THE CONTRACTOR SHALL NOT UTILIZE CONES FOR CHANNELIZATION DEVICES UNLES OTHERWISE DIRECTED BY THE ENGINEER.
- 18. THE CONTRACTOR SHALL UTILIZE A FLASHING ARROW PAMEL IN THE SEQUENTIAL CHEVRON MODE FOR EACH CLOSURE OF A THROUGH LANE: THE CONTRACTOR SHALL NOT UTILIZE A FLASHING ARROW PAMEL IN COMMECTION WITH ANY SHIFTING TAPER.

- 19. THE CONTRACTOR SHALL POSITION CHANGEABLE MESSAGE BOARDS IN ADVANCE OF EACH ROAD CLOSURE OR AS DIRECTED BY THE ENGINEER.
- 20. FOR TEMPORARY CONCRETE BARRIER DETAILS, SEE ADDT STANDARD DRAWINGS. BW-1 KWHITE) OR BW-2 (YELLUM BARRIER MARKERS CONFORMING TO ADDT STANDARD DRAWINGS SHALL BE INSTALLED OF THE BARRIERS SHALL BE CONSIDERED A PART OF THE BARRIERS SHALL BE CONSIDERED A PART
- 21. THE CONTRACTOR SHALL PROVIDE FLAGGERS AND (DPS) AS DIRECTED BY THE ENGINEER DURING THE INSTALLATION AND REMOVAL OF TEMPORARY CONCRETE BARRIER.
 - 22. FOR SAND BARREL CRASH CUSHION DETALLS, SEE ADOT STANDARD DRAWINGS.
- 23. ALL EXISTING PAYEMENT MARKINGS IN CONFLICT WITH THE TRAFFIC CONTROL STRIPING PLAN SHALL BE REMOVED BY WHENDOS APPROVED BY THE ENGINEER. FOR A DATTIME SHIFT IN TRAFFIC, THE SHIFT MAY BE ACCOMPLISHED THROUGH CHANNELIZING DEVICES WITH THE EXISTING PAVEWENT MARKINGS REMAINING IN PLACE.
- 24. WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY A WETHOD THAT IS IN COMPLIANCE WITH OSHA'S 29 CFR, PART 1926, LEAD EXPOSINE IN CONSTRUCTION, INTERIM FINAL RULE. IF LEAD EXPOSINE PREVENTION MEASURES ARE RECURED. IN ECONFACTOR SHALL ENSURE THAT ALL OF THEIR PERSONNEL PRESENT ON THE JOB SITE ARE NOTFIELD OF THE ACTIVITY AND ADVISEO OF NECESSARY PRECAUTIONS TO BE TAKEN TO ANDIO CONTAMINATION BY LEAD COMPOUNDS. THE CONTRACTOR SHALL SUBMIT A LEAD EXPOSINE PREVENTION BY LEAD ENGINEER FOR REVIEW A MINIMUM OF 48 HOURS PRIOR TO THE STAFT OF ANY STRIPING OBLITERATION.
 - 25. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER BY SWEEPING AND AIR-LET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL TEMPORARY PAYEMENT WARKINGS. THE ROADWAY SURFACE SHALL BE DRY.
 - 26. SPEED LIMIT SIGNING IS SUBJECT TO REVIEW AND CHANGE BY THE ENGINEER AS DICTATED BY FIELD CONDITIONS.
- 27. SIGNING FOR DOUBLE FINES IN WORK ZONES, WHEN ALLOWED BY THE ENGINEER, SHALL GENERALLY CONFORM TO FIGURE SA-12 OF THE ADOT TRAFFIC CONTROL DESIGN CUIDELINES. SUCH SIGNING SHALL ONLY BE IN PLACE WITH THE CUIDELINES FOR SIGNING FOR DOUBLE FINES IN WORK ZONES. THE COST FOR COVERNIC OF WOUNG THE SIGNS BEFORE AND AFTER WORK PERIODS IS CONSIDERED INCIDENTAL TO
- 27. ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.

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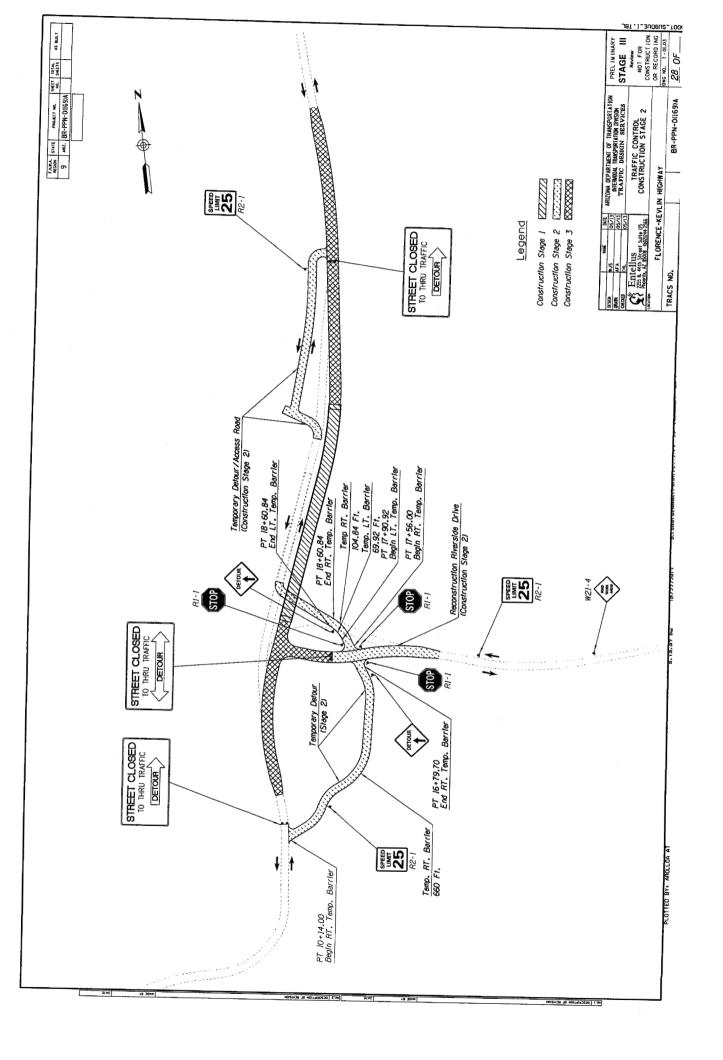
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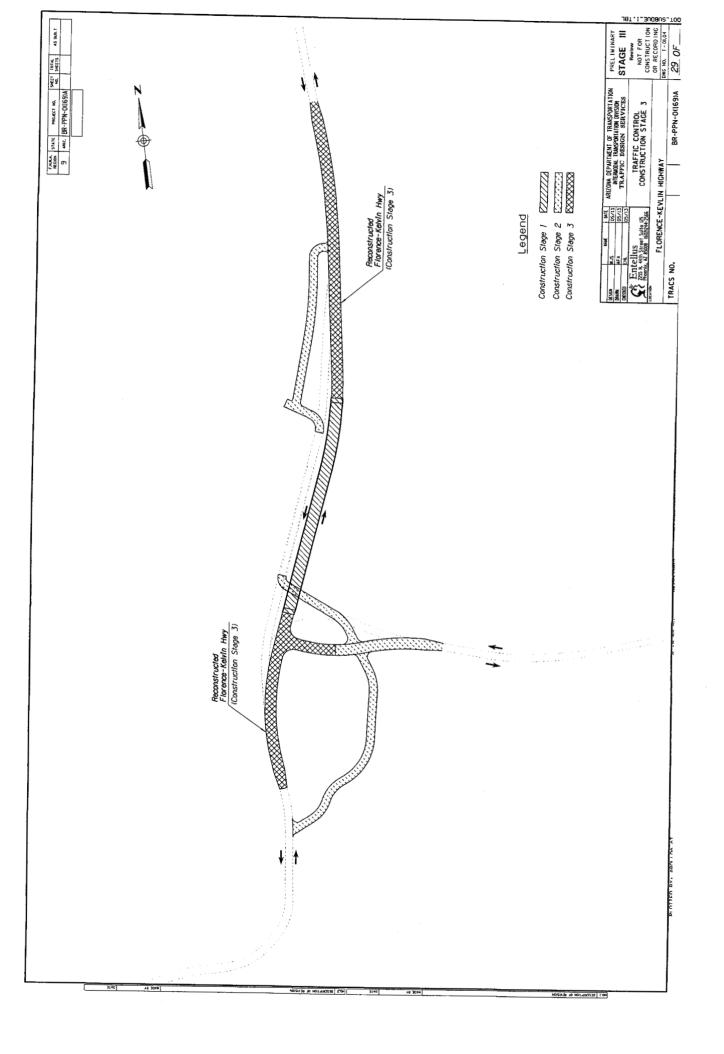
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TRAFFIC CONTROL NOTES:

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- ADJUSTMENTS TO THE DETAILS OF THESE TRAFFIC CONTROL PLANS AND RECUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE ENGINEER.
- 4. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON ALL EXISTING LAWES ON WEEKENDS. ON HOLIDAYS, NIGHTS AND AS DIRECTED BY THE ENGINEER.
- 5. ALL EXISTING STATES STATES BY THE CONSTRUCTION SIGNS SHALL BE REMOVED.
 FELLOCATED OR COVERED IN PLACE, AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL STORE AND REINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY THE ENGINEER.
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- ALL CONSTRUCTION SIGNS SHALL HAVE BLACK LETTERS ON AN ORANGE BACKGROUND, EXCEPT AS OTHERWISE NOTED.
- 8. FOR SIGNS INSTALLED ON EMBEDDED POSTS, SIGN MOUNTING HEIGHT IS A WINNIWW OF 7 FEET INSTALLED FROW THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT, FOR SIGNS INSTALLED ON SPRING OR RIGID STANDS, SIGN WOUNTING HEIGHT IS A WINNIWW OF I FOOT ABOVE THE PAVEMENT.
- 9. FOR SIGNS INSTALLED ON EMBEDDED POSTS, THE NEAREST EDGE OR CORNER OF A SIGN SHOULD BE IZ FEET FROM THE NEAREST EDGE OF PAVEMENT.
- 10. EMBEDDED POSTS MAY BE USED IN PLACE OF SPRING OR RIGID SIGN STANDS, AS LONG AS THEY ARE NOT PLACED THROUGH NEW PAYEMENT.
- II. TWO FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS EXCEPT THE "END OF WORN THANK YOU" SIGN. TYPE "A" FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHTTIME CONSTRUCTION SIGNS EXCEPT THE "END OF WORN THANK YOU" SIGN.
 - 12. CONSTRUCTION SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SCONER BUT THEY MUST BE COVERED OR TURNED AMAY FROM TRAFFIC. THE COST FOR COVERING OR TURNING THEM SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER COMPLETION OF THE CONSTRUCTION ACTIVITIES.
 - 13. WHEN TRAFFIC CONTROL DEVICES ARE NOT IN USE, THEY SHALL BE WOVED AT LEAST 30 FEET FROM THE ROADWAY.
- 14. DRUMS, TYPE 2 BARRICADES AMD VERTICAL PANELS SHALL BE PLACED 40 FEET ON CENTER IN TAPERS AND 80 FEET ON CENTER IN TANGENTS, EXCEPT AS OTHERWISE NOTED ON THE PLANS.
 - IS. THE CONTRACTOR WAY SUBSTITUTE TYPE I BARRICADES FOR TYPE 2 BARRICADES AS LONG AS THE REFLECTIVE AREA ON THE TOP PANEL OF THE TYPE I BARRICADE IS EQUIVALENT OR GREATER THAN THE REFLECTIVE AREA OF A TYPE 2 BARRICADE.
- 16. A TYPE "C" STEADY-BURNING YELLOW LIGHT SHALL BE WOUNTED ON EVERY DRUM, BARRICADE, OR VERTICAL PARKE IN TAPERS, AND ON ALTERNATING DRUMS, BARRICADES, OR VERTICAL PARKELS IN TANCENTS.

- 17. DURING WIGHTIME. THE CONTRACTOR SHALL NOT UTILIZE COMES FOR CHANNELIZATION DEVICES UNLES OTHERWISE DIRECTED BY THE ENGINEER.
 - THE CONTRACTOR SHALL UTILIZE A FLASHING ARROW PANEL IN THE SEQUENTIAL CHEVRON MODE FOR EACH CLOSURE OF A THROUGH LAME. THE CONTRACTOR SHALL NOT UTILIZE A FLASHING ARROW PAWEL IN CONNECTION WITH ANY SHIFTING TAPER.

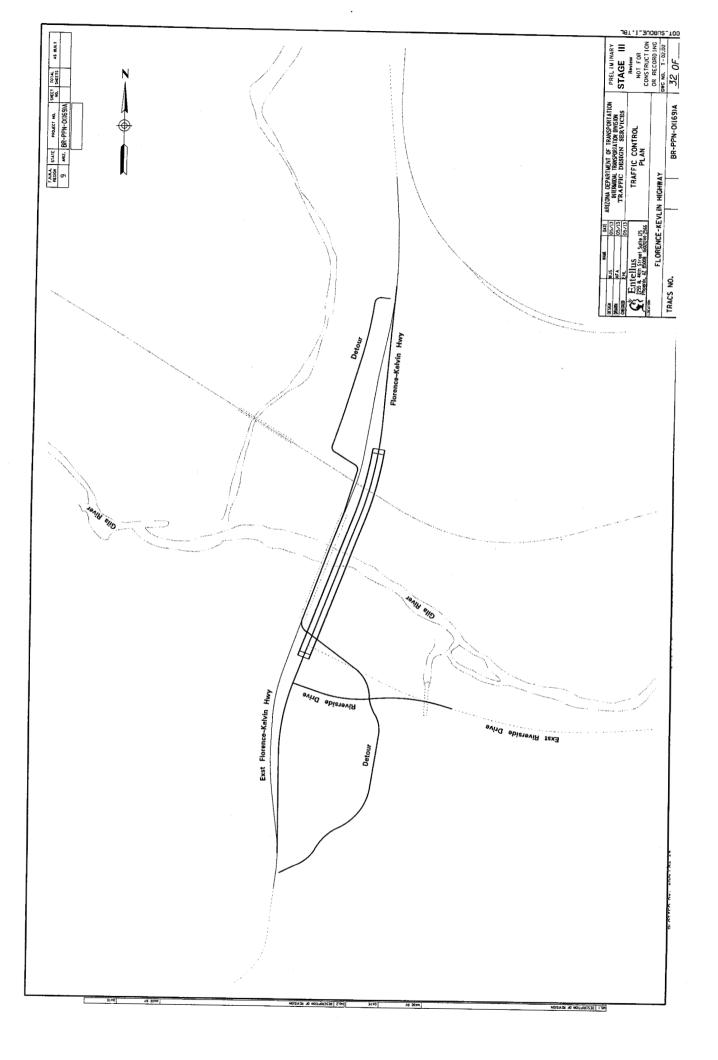
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- THE CONTRACTOR SHALL POSITION CHANGEABLE MESSAGE BOARDS IN ADVANCE OF EACH ROAD CLOSURE OR AS DIRECTED BY THE ENGINEER.
- 20. FOR TEMPORARY CONCRETE BARRIER DETAILS, SEE ACOT STANDARD DRAWINGS. BW-1 (WHITE) OR BW-2 (YELLOW BARRIER MARKERS CONFORMING TO ACOT STANDARD DRAWINGS SHALL BE INSTALLED AT 25 FOOT SPACING. THE INSTALLED PRICE FOR THE MARKERS SHALL BE CONSIDERED A PART OF THE BARRIER COST.
 - 2). THE CONTRACTOR SHALL PROVIDE FLAGERS AND LDPS) AS DIRECTED BY THE ENGINEER DURING THE INSTALLATION AND REMOVAL OF TEMPORARY CONCRETE BARRIER.
- 22. FOR SAND BARREL CRASH CUSHION DETAILS, SEE ADOT STANDARD DRAWINGS.
- 23. ALL EXISTING PAVEMENT WARKINGS IN CONFLICT WITH THE TRAFFIC CONTROL STRIPING PLAN SHALL BE REMOLDED BY WETHOOS APPROVED BY THE ENGINEER, FOR A DAYTIME SHIFT IN TRAFFIC, THE SHIFT MAY BE ACCOMPLISHED THROUGH CHANNELIZING DEVICES WITH THE EXISTING PAVENENT WARKINGS REMAINING IN PLACE.
- 24. WHEN STRIPE OBLITERATION IS NECESSARY, IT SHALL BE ACCOMPLISHED BY A WETHOD THAT IS IN CONSTRUCTION, INTERIM FINAL CONSTRUCTION, INTERIM FINAL CONSTRUCTION, INTERIM FINAL FULLS. IF LEAD EXPOSINE PREVENTION MEASURES ARE RECUIRED. THE CONTRACTOR SHALL ENSURE THAT ALL OF THEIR PERSONNEL PRESENT ON THE JOIN SITE ARE NOTIFIED OF THE ACTIVITY COMPOUNDS. THE CONTRACTOR SHALL SUBMIT A LEAD EXPOSINE PREFETATION BY LEAD EXPOSINE PREFETATION BY LEAD EXPOSINE PREFETATION BY LEAD ENGINEER FOR REVIEW A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY STRIPING OBLITERATION.
 - 25. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL TEMPORARY PAVEMENT MARKINGS, THE ROADWAY SURFACE SHALL BE DRY,
 - 26. SPEED LIMIT SIGNING IS SUBJECT TO REVIEW AND CHANGE BY THE ENGINEER AS DICTATED BY FIELD CONDITIONS,
- 27. SIGNING FOR DOUBLE FINES IN WORK ZONES, WHEN ALLOWED BY THE ENGINEER, SHALL GENERALLY CONFIGUL DESIGN GUIDELINES. SALE ADD. TRAFFIC CONTROL DESIGN GUIDELINES. SUCH SIGNING SHALL OWN BE IN PLACE WHEN WORKERS AFRE PRESENT IN ACCORDANCE WITH OR WOUND THE CONDELNES FOR SIGNING FOR DOUBLE FINES IN WORK ZONES. THE COST FOR COVERNOR THE CONTRACT.
- 28. ALL DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE.

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| SPEET NO. | | |
| PROJECT NO. | ARIZ. BR-PPN-0(169)A | |
| STATE | ARIZ. | |
| F.K.W.A. | 6 | |

PAVEMENT MARKING NOTES:

- ALL PAYEMENT WARKING AND STRIPING SHALL BE IN COMPLIANCE WITH THE ADOT SIGNING AND MARKING STANDARD DRAWINGS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE PAVEWENT WARKING DRAWINGS ARE SCHEWATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS. DETAILS AND STAMDARDS WHEN INSTALLING PAVEMENT MARKINGS AND MARKERS.
- THE PERMANENT PAYEMENT MARKING PLANS MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.

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- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERNAMENT PAVENENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN SO FEET APART ALONG THE LINES TO BE STRIPED.
- 5. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE ENGINEER. BY SWEEPING AND ART-LE BLOWING. IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PALEMENT MARKINGS.

 SWEEPING AND ART-LES SHALL BE ORD: THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 50° F FOR THE PLACEMENT OF THEMPORASTIC STHEIMIG. THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 60° F FOR THE INSTALLATION OF TYPE I PAVEMENT MARKING TAPE.
- WHEN STRIPING, SYMBOLS, OR LEGENDS ARE TO BE APPLIED TO NEW CONCRETE PAVEMENT, ANY CURING COMPCIND PRESENT SHALL BE FRENOYED BY WETHOOS APPROVED BY THE ENGINEER, ON BOTH HEW AND OLD PAVEMENT, A PRIMER-SEALER, AS RECOMMENDED BY THE THERMOPLASTIC MANIFACTURER, SHALL BE APPLIED TO THE PAVEMENT PRIOR TO THE PLACEMENT OF THE THERMOPLASTIC MATERIAL
- 7. THE FINAL STRIPING SHALL BE 60 MIL (0.060 INCHES) THICK HOT-SPRAYED THERWOPLASTIC REFLECTORIZED STRIPING PLACED AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE. AS DIRECTED BY THE ENGINEER. ALL OTHER MARKINGS SHALL BE APPLIED AT THE SAWE TIME.
- 8. ALL FINAL STOP BARS, SINGLE ARROWS AND "ONLY" LEGENDS SHALL BE 90 MIL 10.090 INCHES) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED WARKINGS. THEY SHALL BE INSTALLED IN ACCORDANCE WITH ADOT STD. DWGS.
- 9. WHEN STRIPE OBLITERATION IS NECESSARY. IT SHALL BE ACCOMPLISHED BY APPROVED METHODS, AS INDICATED IN THE SPECIAL PROVISIONS. PAINTING OVER STRIPING, REMONAL OF PAVEMENT, AND OVERLAYING PAVEMENT DO NOT CONSTITUTE STRIPE OBLITERATION.
- 10. ALL RAISED PAYEMENT WARKERS SHALL HAVE AN ABRASION-PESISTANT COATING ON THE FACE OF THE PRISMATIC REFLECTORS AND SHALL CONFORM TO THE DETAILS OF ADOT STANDARD DRAWINGS, THEY SHALL BE INSTALLED WITH A BITUMINOUS ADHESIVE WHICH IS ON THE ADOT APPROVED PRODUCTS LIST.
- WHERE RAISED PAVEMENT MARKERS ARE PLACED ALONG SOLID STRIPING. THE NEAREST EDGE OF EACH MARKER SHALL BE OFFSET TWO INCHES FROM THE NEAREST EDGE OF THE STRIPING.
- 12. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC BANDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
 TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR REFLECTIVE FACE OF EACH WARKER IS FACING APPROACHING TRAFFIC AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
- 13. THE CONTRACTOR SHALL DELINEATE ALL NEW GUARD RAIL END TREATHENTS IN ACCORDANCE WITH ADOT STANDARD DRAWINGS AND ADOT STANDARD SPECIFICATIONS. THERE SHALL BE NO WEASUREWENT OR PAYWENT FOR THE GUARD RAIL END TREATWENT DELINEATION.
- 14. THE CONTRACTOR SHALL REPLACE ALL DELINEATORS WITH NEW FLEXIBLE DELINEATORS AT THEIR CURRENT STATIONS. IN ADDITION, THE CONTRACTOR SHALL INSTALL DELINEATORS IN ACCORDANCE WITH ADOT STD DRAWINGS AND AS DIRECTED BY THE ENGINEER, ALL FLEXIBLE DELINEATORS SHALL BE ON ADOT'S APPROYED PRODUCTS LIST.
- IS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT STRIPING IS OFFSET ONE FOOT CLEAR OF THE CONSTRUCTION JOINT. UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

CONSTRUCTION OR RECORDING OWG NO. T-02.03

BR-PPN-0(169)A

FLORENCE-KEVLIN HIGHWAY

TRACS NO.

NOT FOR

PAVEMENT MARKING GENERAL NOTES AND QUANTITIES

Entellus 2255 M. 4th Street Sulte 125 Phoents, A. 85008 6602744-256

STAGE III

ARIZONA DEPARTMENT OF TRANSPORTATION MIEBADDA, TRANSPORTATION DIVISION TRAFFIC DESIGN SERVICES

| APF | APPROXIMATE PAVEMENT MARKING QUANTITIES | ING OU | ANTITIES | |
|------------------------|---|--------|---|---|
| 11 | ITEM | ITEM | ITEM TOTAL QUANTITIES PAY QUANTITY* | PAY QUANTITY* |
| PAVEMENT MARKINGS | 6 INCH DASHED YELLOW | FT | 2 | *** |
| (WHITE) | 6 INCH DOUBLE YELLOW | FT | 社会社会 | *** |
| | 6 INCH SOLID WHITE | FT | **** | * |
| | 18 INCH WHITE STOP BAR | FT | *** | 10 10 10 |
| RAISED PAVEMENT MARKER | TYPE .C. | EACH | ****** | * * * |
| | | | | |

* PAY QUANTITY IS BASED ON A 4" WIDE STRIPE

MOTE: QUANTITIES FOR OBLITERATE PAVEMENT MARKING. OBLITERATE PAVEMENT MARKERS AND TEMPORARY PAINTED WARKING ARE INCLUDED WITH TRAFFIC CONTROL QUANTITIES.

AS BUR.T QUANTITIES 8 * : * * * * * * BR-PPN-0(169)A SO FT UNIT 1 FT EACH EACH L FT SO FT EACH STATE ARIZ. APPROXIMATE SIGN QUANTITIES IN HIGHWAY REGULATORY, WARN, MARKER SIGN PANEL WITYPE IIIIN SHEET EXTRUDED ALUM SIGN PANEL WITH TYPE III SHEET FOUNDATION FOR SIGN POST (CONCRETE) SIGN POST (21/2S) (PERFORATED) THE RETRO-REFLECTIVE SHEETING ON ALL NEW SIGNS SHALL WEET ADOT STANDARD SPECIFICATIONS.

Solid Dual Yellow Stripes

New EP New EP риз JPI4S .9 ,9 **9U₽**7 ıSı ıs. Ŷ Dashed Yellow Stripe Solid Yellow Stripe Solid White Stripe

FLORENCE-KELVIN HIGHWAY MARKINGS DETAIL

| | VO 4 14 14 19 19 19 19 19 19 19 19 19 19 19 19 19 | THEL IM INART | STAGE | Review | NOT FOR | CONSTRUCT ION | OR RECORDING | DWG NO. T -02.04 | 34 05 | 5 |
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| TOTOM OF THE PERSON NAMED IN CO. | ARIZUNA DEPARTMENT OF TRANSPORTATION | INTERMODAL TRANSPORTATION DIVISION | TRAFFIC DESIGN SERVICES | | SIGNING GENERAL NOTES | | FLORENCE-KEVI IN HIGHWAY | | BR-PPN-O(169)A | 40000 |
| NAME DATE | MUS MUS | ORASIN AFA | OEC130 | Entelline | 2255 N. 44th Street Suite 125 | LOCATION TROUBE, AL 85008 6602/244-2566 | FLORENCE-KE | | TRACS NO. | |

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| ALL SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE ADOT SIGNING AND MARKING STANDARD DRAWINGS. THE ADOT TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS, AND THE SPECIAL PROVISIONS. THE SIGN LOCATIONS AND POST LENGTHS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE SIGN LOCATIONS AND ACTUAL POST LENGTHS WITH THE ENGINEER PRIOR TO CONSTRUCTING THE FOUNDATIONS FOR SIGN SUPPORTS. | APPROXIMATE SIGN FLORENCE-KELVIN |
|--|---|
| THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN | DESCRIPTION BREAKAWAY SION POST SAX7.7 |
| OFFSETS FOR ALL SIGNS SHALL BE WEASURED FROW THE EDGE OF THE ROADWAY TO THE MEAREST EDGE OF THE SIGN. | FOUNDATION FOR BREAKAWAY SIGN POST 5447.7 SLIPBASE FOR SIGN POST 1912. |
| ALL NEW SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM WITH DIRECT APPLIED COPY OR SCREEN PRINTED LEGEND AS INDICATED IN SECTION EGB. ALL SIGNS THAT ARE LARGER THAN 48 WIDE SHOULD BE EXTRUDED ALUMINUM WITH DEMOUNTABLE CHARACTERS. | SIGN POST (2½S) (PERFORATED) FOUNDATION FOR SIGN POST (COMPRETE) |
| | |

GENERAL SIGNING NOTES

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ALL NEW SIGNS SHALL BE INSTALLED ON NEW SOUARE TUBE POSTS WITH FOUNDATIONS AS INDICATED IN ADDITIONS AS INDICATED THE ENGINEER MAY MODIFY THE SIGNING PLANS.

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SHOP DRAWINGS WILL BE REQUIRED FOR ALL GUIDE SIGNS. SIGN FORMATS WILL BE RECUIRED FOR ALL GUIDE AND NONSTANDARD SIGNS. 9 Ó.

THE CONTRACTOR SHALL REMOVE EXISTING SIGNING WHERE INDICATED IN THE SIGN SUMMARY

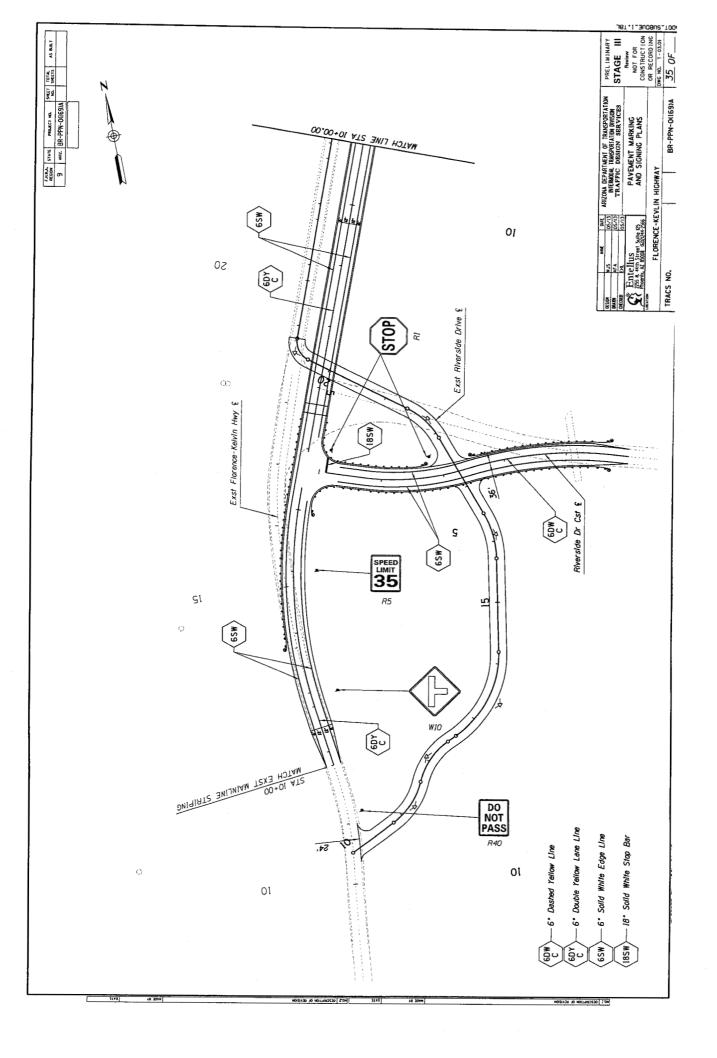
SIGN PANELS SHOWN TO BE RELOCATED SHALL BE INSTALLED ON NEW POSTS AND FOUNDATIONS. EXISTING POSTS AND FOUNDATIONS SHALL BE REMOYED. Ή. 8

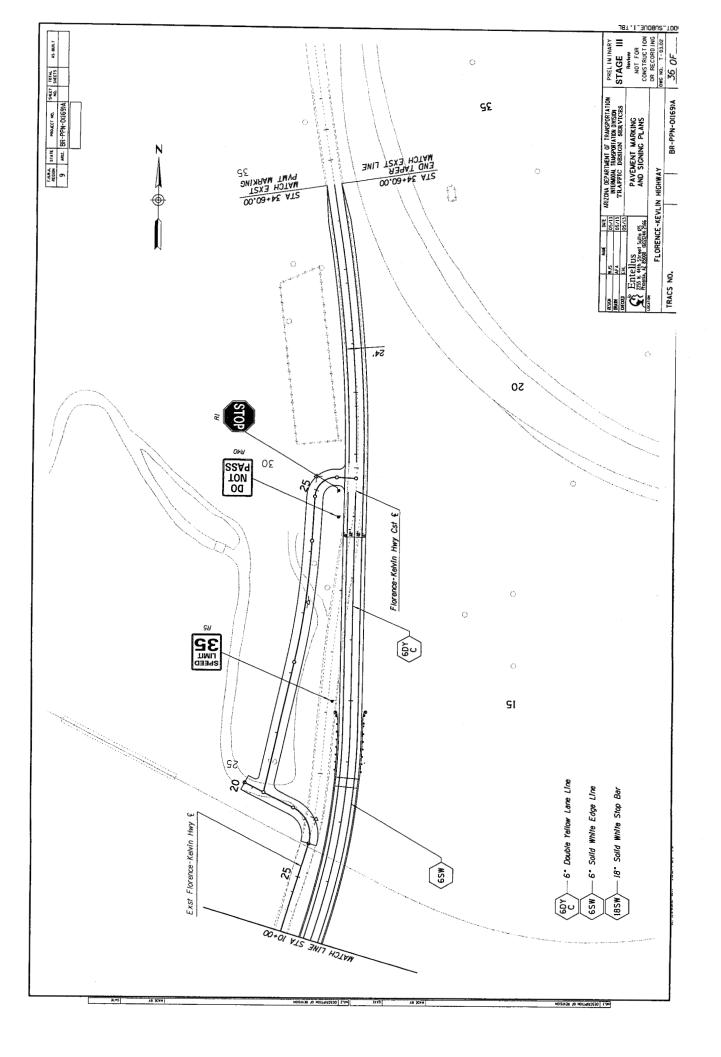
ALL SOUARE TUBE SIGN POSTS SHALL BE OF THE 2.5" SIZE.

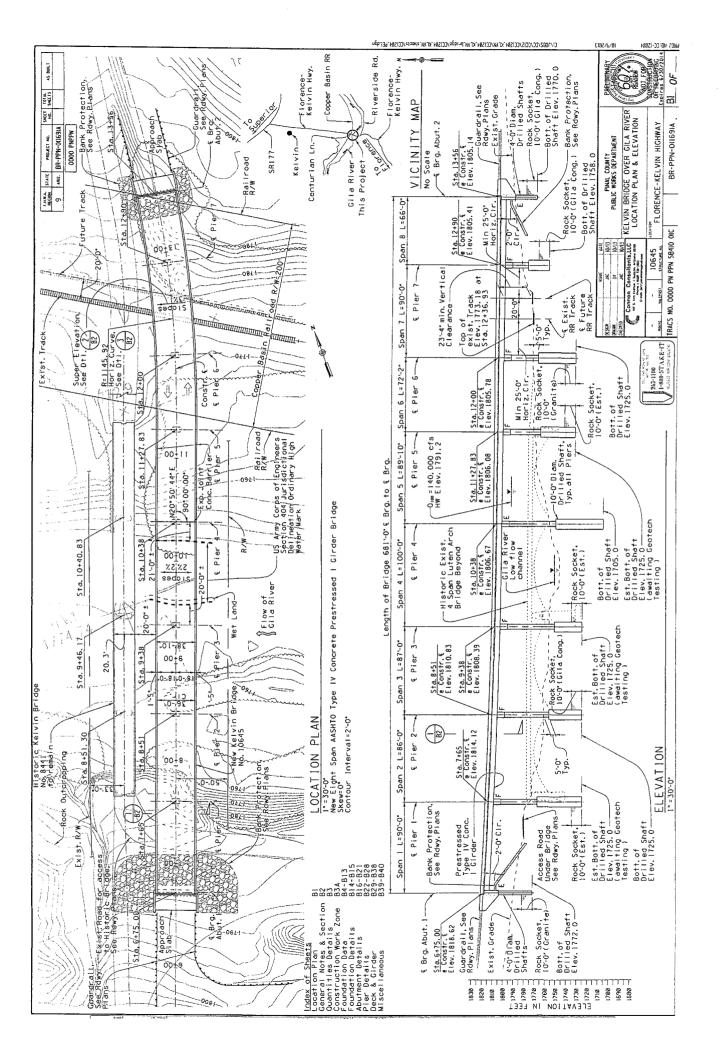
EXISTING SIGNS NOT INDICATED IN THE SIGN SUMMARY. THAT DO NOT NEED TO BE REMOYED OR RELOCATED. SHALL REMAIN. IF CONSTRUCTOR ACTIVITIES RECUIRE THE REMOYAL OF SIGNS, THE SIGNS SHALL BE REINSTALLED AS HEAR AS POSSIBLE TO THE EXISTING AS DIRECTED BY THE ENGINEER. THE REMOYAL / REINSTALLATION OF SIGNS FOR ANY CONTINGLIFICIN ACTIVITY SHALL BE INCLUDED IN THE COST 13.

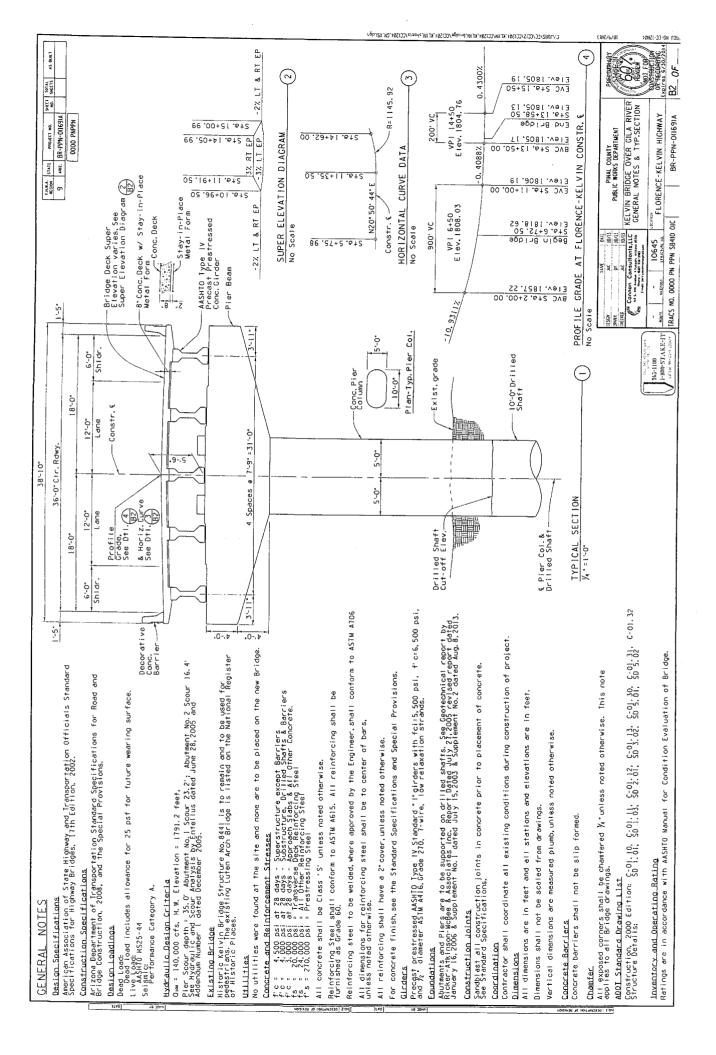
THE CONTRACTOR SHALL PRESERVE ALL ROADWAY SIGNS. SIGN SUPPORTS, OBJECT WARKERS, AND WILEPOST WARKERS. THE CONTRACTOR SHALL REPLACE ANY SIGNS. SIGN, SUPPORTS, AND WARKERS DAWAGED AS A RESULT OF THE CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

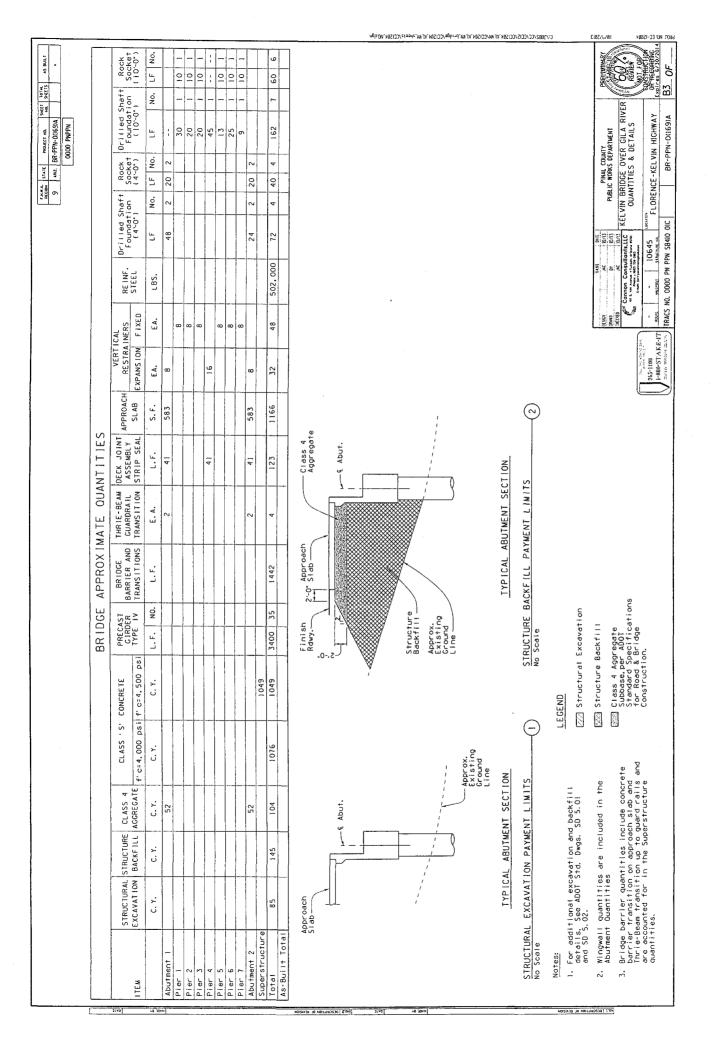
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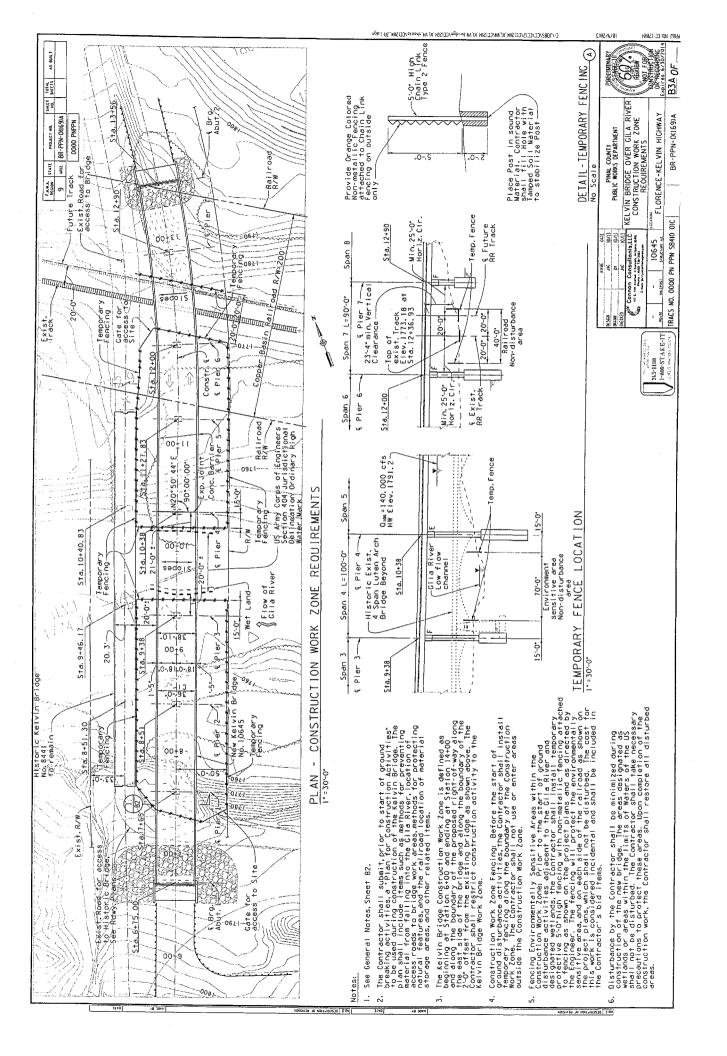












C:/1082/CC/CCIS/CCIS@*\K/MA/CCIS@*\K/AM*P-19d@/CCIS@4`K/AM*#PGG \$-/CCIS@*\EUS-9du AS BUIL 1 B5 OF FREEDON STATE PROJECT NO. SHEET TOTAL SHEETS OF SHEETS O KELVIN BRIDGE OVER GILA RIVER FOUNDATION DATA 2 OF 10 FLORENCE-KELVIN HICHWAY BR-PPN-0(169)A 0000 PNPPN PINAL COUNTY PUBLIC WORKS DEPARTMENT TRACS NO. 0000 PN PPN S8410 01C PAT 10013 10645 RAMM Acus 265-1100 1-800-STAKE-1T 35 8 45 6 8 Æ TEST BORING LOG. BY. Signer of State Log of State Log of State Log of State Log of State Log of State Enoughes of State Enoughes of PRILER: O. S. S. Driffing LOG BORING No. B1 (cont.) Moderately to highly fracturedix increasing weathering in joints. Stapped coring at 40 feet. No groundwater observed. ТЕST BORI PROJECT NO. <u>G09158</u> PROJECT NAME: <u>Eleberga - Kelvin Bridger</u> © Gila River_ STA. <u>6+75 sn Cl.</u> ORILL EQUIPMENT: <u>CME 75</u> bailinU Dry Density, pcf G09156 N/R (% Rec./ %RQD) 100/55 R.A.M.M. Project No: Blows/Foot (Core Data) 8 35 8 45 8 15 20 Ş TEST BORING LOG

DATE: 11.2.04

BY: SB
SHETING LOG
SHETING OF 2

GROUND ELEV. TIRZO

WT. ELEV. None Encountered

DRILLER. DAS Differed 12" Asphail Contress
Silty Sand, Trace Gravel (Decomposed Granie), tannearly dry, medium dense to very dense with depth.
grades less weathered with depth. Grantle, reddish brown to gray, hard to very hard, slightly to moderately fractured/fointed with some weathering in fracture zones. (Sta. 6+75 on CL) TEST BORII

Vo. 608158

*AME: Electrone - Kelvin Bridge @ Gile River

**TS on CL. bailinU Water Content, % Dry Density, pcf G08156 aqyT alqmis2 N/R (% Rec./ % ROD) 50/5 72/18 100/70 100,27 R.A.M.M. Project No: Blows/Foot (Core Data) 13 BORING NO.
PROJECT NO.
PROJECT NAME:
STA. 6+75-0
DRILL EQUIPMENT: υ <u>(</u> ~ Depth, feet , 2 | | | | | | | | | | | | 8 25

C:\.JOBS\.CE\.CE\ZE\ZE\ZE\ZE\.KI.RW\.E\.ZE\.R\.W\.b=\dge\.CE\Z8A,.KL.W\.3hee45_\ZE\Z8A,.FDX.dgn 307 NO CC-15884 Expires 6/30/2016 TOTAL SHEETS AS BUILT 65 TEST BORING LOG

ONTE: 11:18.44

SHEET NO. 39 OF

SHOWN ELEY 1789.2'

WITELEY 1784.2'

ORLUGE 1784.2'

ORLUGE 1784.2'

ORLUGE 1784.2' PINAL CONTRIBUTION PARTIENT FOR FOUNDATION DATA NO. FAUNTAL STATE PROJECT NO. 9 ARTZ. BR-PPN-0(169)A 0000 PNPPN FLORENCE-KELVIN HIGHWAY 8R-PPN-0(169)A LOG BORING No. B2 (cont.) Stopped coring at 55 feet. Groundwater observed at 6 feet. MR = No Recovery
 BORING NO.
 B2
 1EST BORI

 PROJECT NO.
 G08156
 FROJECT NAME:

 PROJECT NAME:
 Florence - However
 And Project Name

 S1A.
 B+51 on Cl.
 CME 13

 DRILL EQUIPMENT:
 CME 13
 Classification Dailined TRACS NO. 0000 PN PPN SB410 OIC Œ Water 10645 SIRNETURE HG. Dry Density, RAMM Sample Type G08156 N/R (% Rec./ % RGD) 50/1 Blows/Foot (Core Data) R.A.M.M. Project No: XESSEN MANN CHECKED 263-1100 1-R00-STAKE-IT Depth, feet 55 18 1 8 2 12 35 9 45 20 A6 β¥ TEST BORING LOGE: 11:18-04 BY SHEFT NO. 2 OF GROUND LEW. 178-07 OF GROUND LEW. 178-07 OF LEW. 17 Gila Congiomerate: brown, moderalely hard, sand, giavel, cobble and brouder size eless in verisibly moderate to heavy centented stilly matrix, massive, combins some centented stand zones and gravely and zones. LOG BORING No. B2 (cont.) Clasts vary in origin (metamorphic). Lightly weathered. Classification Unified Watert, % Ĕ ž ž Ory Density, pcf G08156 NR (% Rec./ % RQD) 50/1 50/3 Blows/Foot (Core Data) 50/1 R.A.M.M. Project No: 50/1 -53/0 8 35 6 90 7. SB 9 15 20 A5 TEST BORING LOG

DATE: 11.18.44
SHEET NO. 11.06
GROUND ELEV. 1760.
W.T. ELEV. 1750.
DATE. 1750.
DRILLER. DAS Deline. (4" SSA to 10", changed to 3" steel casing and rolary wash drilling) (Sta. 8+51 on CL) Wet below 6 feet | EST BORNG NO. | R. | PROJECT NO. | G08156 | PROJECT NAME: | FREEDER: FREEDER: REPRESE - HOWN BRIDGE @ GN RIVEL | PROJECT O. | B151.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 G. | B161.00 Unified Clessification Di Content, % 6 28 Water 22 = Dry Density, G08156 WR (% Rec.) %ROD) Blows/Foot (Core Data) R.A.M.M. Project No: Depth, feet 1 2 50

C:\JUBS\CC\CCIS\CCISRA,KLWN\CCISRA,KLYW,bridge\CCISBA,KLYN,sheets\CCISRA,FDA.dgn TOTAL AS BUILT SHEETS AS BUILT B7 OF 2 SB A10 2.00 ND KELVIN BRIDGE OVER GILA RIVER FOUNDATION DATA 4 OF 10 FLORENCE-KELVIN HIGHWAY BR-PPN-0(169)A FAHMA. STATE PROJECT NO. 0000 PNPPN Description PINAL COUNTY PUBLIC WORKS DEPARTMENT LOG BORING No. B3 (cont.) (Sta. 10+40. 83 on CL) Unified Classification TRACS NO. 0000 PN PPN SB410 01C Water Content, % - 10645 w.(rest staucture: 10 12 Dry Density, pcf RAMM G08156 Sample Type z z N/R (% Rec./ % ROD) R.A.M.M. Project No: 42 38 45 Blows/Foot (Core Data) 263-1100 1-800-STAKE-IT 8 2 68 135 Depth, feet 40 40 99 TEST BORING LOG 11:11-04 6Y: SHEET NO. 2 0F 6W: SHEET NO. 2 0F 6WING LOG 17:330; WT. ELEV. 17:330; WT. ELEV. 17:330; PRILLER: D & S. DARING. Shanged to rotary wash using 3* diameter Description LOG BORING No. B3 (cont.) (Sta. 10+40. 83 on CL) BORING NO. <u>83</u> 1-1-01 DOINI PROJECT NO. <u>GB158</u> PROJECT NAME. <u>Eloreog. Kelvin Bridge ® GIa River</u> STA. <u>CNA 104, 83 an CS.</u> ORILL FQUIPMENT: <u>CME 75</u> Classification Waler Content, % 5 Dry Densily, G08156 Sample Type R.A.M.M. Project No: N/R (% Rec./ % ROD) 50/3 32 33 Blows/Foot (Core Data) 8 8 38 49 45 5 8 8 AB .: SB Э. TEST BORING LOG DATE. 11-11-04 BY SHERT NO. 1 1755.0 BY SHERT NO. 1 1755.0 BY SHERT NO. 1755.0 BY SHERT NO Sand and Gravel, With Silt and Cobbles; gray, wel, medum dense to dense, low to no plasticity fines. (4" SSA to 10", then downhole hammer w casing advancer, 5" diameter, air rotary) Description LOG BORING No. B3 Unified Classification BORING NO. <u>83</u>
PROJECT NO. <u>GB156</u>
TROJECT NAME: Florence : Kein's Bridge № GBa River
51A. 10-40,83 an GL.
DRILL EQUIPMENT: <u>CARE 75</u> \triangleright Waler Content, % 21 bcl Dry Density, Ϋ́ G08156 Sample Туре z N/R (% Rec./ % RQD) R.A.M.M. Project No: Ξ 25 13 5 Blows/Foot (Core Data) G (mg) 28 | 29 | 29 Deplh, feet 2 10

C:/1082/CC/CCIS/CCIS&\:KFAW/CCIS@4\:KFAW\Prind@/CCIS@4\:KFAW\:######/CCIS@4\:F00.0dm Paternam Color Col FAREN STATE PROJECT NO. SHEET 103.44 AS BOULT RECION. 940. SHEETS AS BOULT BY AND. BR. PDN-001693A BB OF 35 6 55 413 TEST BORING LOG: 11.19.44 BY: 2 AMEDING LOG BY: KELVIN BRIDGE OVER GILA RIVER FOUNDATION DATA 5 OF 10 Changed to NQ wirefine coring with rolary wash. FLORENCE-KELVIN HIGHWAY BR-PPN-0(169)A Granite; gray, hard, high fractured/jointed. I weathering along joints/fractures. 0000 PNPPN Description PINAL COUNTY PUBLIC WORKS DEPARTMENT Slopped coring at 50 feet.
Goountwester observed at 16 feet.
MR = No Recorery
Theory by surrecute at condour accorded as the periods by the records to septicate the particular before he periods before he and periods. LOG BORING No. B4 (cont.) (Sta. 12+00 on CL) Unified TRACS NO. 0000 PN PPN SB410 01C 10645 ¥ 뚲 62.1C 10/13 10/13 Water Dry Densily. RAMM G08156 Sample Type z N/R (% Rec./ % ROO) R.A.M.M. Project No: 89.9 100/63 100/85 60/4 82/0 1000 Blows/Foot (Core Data) BORING NO.
PROJECT NO.
PROJECT NAME:
STA. 12+00
DRILL EQUIPMENT: SECTION AND SECTIO ပန့် 263-1190 1-860-STAKE-IT 8 35 Depth, feet 9 45 8 15 8 52 A12 TEST BORNG LOG

MATE: 11.0.04

SHET NO. 17.20

WROUND ELEY. 172.00

ORTHURE: D. & S Dollog

DRILLER: D. & S Dollog (4° SSA to 10', changed to 3" casing with diamond bit and rolary wash) LOG BORING No. 84 Silly Sand, Trace Grave Wet below 16 feet BORING NO.

B4
PROJECT NO.

G08156
PROJECT NAME.

FROMEL FREEDERS SHOPE.

GNE 75.

DRILL EQUIPMENT:

GME 75. Classification SCIGC š 5 9 28 53 Water Ĕ 8 16 Dry Density, G08156 α œ N/R (% Rec.) % RQD) R.A.M.M. Project No: 8 6 5 Blows/Foot (Core Data) C (Mg) Deplh, feet 15 8 12 8 8 8 SB F 41 | TEST BORNG LOG | 11:11:04 | 8Y: | SHEET NO. | 4 OF | 4 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17:55.0 | OF | 17 Stopped coving at 100 feet.

Goundwater observed at 12.5 feet.

KR - No Recovery
In the ray by streams for constant or part of stream of the ray of the ray by streams for constant or part of stream or constant or part of streams or constant or part of streams or constant or part of streams or constant or Boulders and Cobbles, With Sand and Gravet Filling Voids; brown, wet, dense to very dense, low to no plasticity fines. Description LOG BORING No. 83 (cont.) (Sta. 10+40. 83 on CL) beilinU ą, Waler Content, % ž Ĕ 2 Dry Density, pcf 608156 Sample Type z z N/R (% Rec./ R.A.M.M. Project No: 50/4 47 4 Blows/Foot (Care Data) C (Run) 82 1 | 8 | 1 | 8 8 8

C:/1085/CC/CC15/CC1584.rk/ vw/CC1584.kLvv.b-idge/CC1284.kLvv.shee45/CC12VA.T0).dgn HOJ WG-CC-12884 PHETATING OF SECTION O AS EUR.1 65 Q FAWAL STATE PROJECT NO. SHEET 7014. A19 RIVER FLORENCE-KELVIN HIGHWAY BR-PPN-0(169)A DOOD PNPPN KELVIN BRIDGE OVER CILA FOUNDATION DATA 7 OF 10 PINAL COUNTY PUBLIC WORKS DEPARTMENT LOG BORING No. B6 (cont.) Stopped coing at 60 feet.
No groundwater observed.
NR = No Recovery 1 TEST BORING
10 G381 56

AME: Florence - Kehini Biodoe (8) Gila River
10 1555, L15

MARIAN-Classification bailinU | 10645 | Factor | 10645 | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Factor | Fac bct Duy Density, RAMM G08156 Sample Type NIR (% Rec.) Blows/Foot (Core Data) BORING NO.
PROJECT NO.
PROJECT NAME:
STA. 13+55.
DRILL EQUIPMENT: R.A.M. Project No: ပန့် 263-HB0 1-ND0-STAKE-IT 22 Depth, feet 8 85 2 1 | 12 49 A:8 TEST BORING LOG

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10.00 Cila Ri Granite; gray, moderately hard to hard, highly fractured/jointed with highly weathered joints. LOC BORING No. 86 (cont.) (Sta. 13+55 L15') ВОЯНИС NO. <u>BB</u> PROJECT NO. <u>OBB156</u> PROJECT NAME: <u>BRONGE, Keinn Bridge @ Gin Rwer</u> STA. <u>13+55-115</u> DRILL EQUIPMENT: <u>CME 75</u> DailinU Content, % Valer اكن Densily, G08156 Sample Турв M/R (% Rec./ 50/3 . 1,705 100/0 Biows/Foot (Core Data) 30/0 R.A.M. Project No: 8 45 20 TEST BORING LOG

OATE: 11.15.04 BY: SB

SHEET NO. 1 OF 3

GROUND ELEV TYBO 'LAGL).

W.T. ELEV NAME Excounce of

DRILLER D. 8.5 DIRMO. 9 15 82 1 22 A17 Gila Conglomedie, brown, moderately hard, sand, gravel, cohife and boulder size clasts in vaniably moderate to heavy cemented silly matrix, massive, contains some comented sand zones and gravelly sand zone. Upper 10 feet is visual log of not adjacen to test boring.
Clayey Sand and Gravel, With Cobbles ar brown, nearly dry, drinse to very dense, m plasticty fines. LOG BORING No. B6 (Sta. 13+55 [15") Clasts vary in origin (s. metamorphic). ВОRING NO. <u>86</u> PROJECT NO. <u>COR156</u> PROJECT NAME: <u>Corner 4 rokin Bridge @ Gila River</u> STA. <u>15-55, L15</u> DRUL EQUIPMENT: <u>COME 75</u> beilinU . Water Content, % ŭ Dry Density, pcf 608156 Sample Type NJR (% Rec./ % ROD) . 5/05 Blows/Foot (Core Data) 50/1 50/4 R.A.M. Project No: G (Ren) Depth, leet 1 | 1 | 2 1 9 25 25

C:\\\ \OBS\\ \CC\\ \CC\\ \CC\\ \CC\\ \SW\\ \KLYW\\ \CC\\ \SW\\ \KLYW\\ \SW\\ \SW\\ \KLYW\\ \SW\\ \SW\\ \KLYW\\ \SW\\ \SW\\ \KLYW\\ \SW\\ \SW\\ \SW\\ \KLYW\\ \SW\\\ \SW\\ \SW\\\ \SW\\\ \SW\\\ \SW\\\ \SW\\\ \SW\\ \SW\\\\ \SW | FAMEA | STATE | PROJECT NO. | SOCTI | TOTAL | SOCTI | SOCTI | SOCTI | SOCTI | SOCTI | SOCI | SOCTI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI | SOCI 1941 PINAL COUNTY
1943 PUBLIC WORKS DEPARTMENT
1943 KELVIN BRIDGE OVER GILA RIVER
FOUNDATION DATA
8 OF 10 203-1100 1-800-573-AKP-17 1-800-573-AKP-BR-PPN-0(169)A LOG BORING No. B (cont.) RAMM 24th 25 27 28 LOG BORING No. B (cont.) AWAITING ENVIRONMENTAL CLEARANCE TO DRILL HOLE LOG BORING No. B

MOLEVE OF REVISION

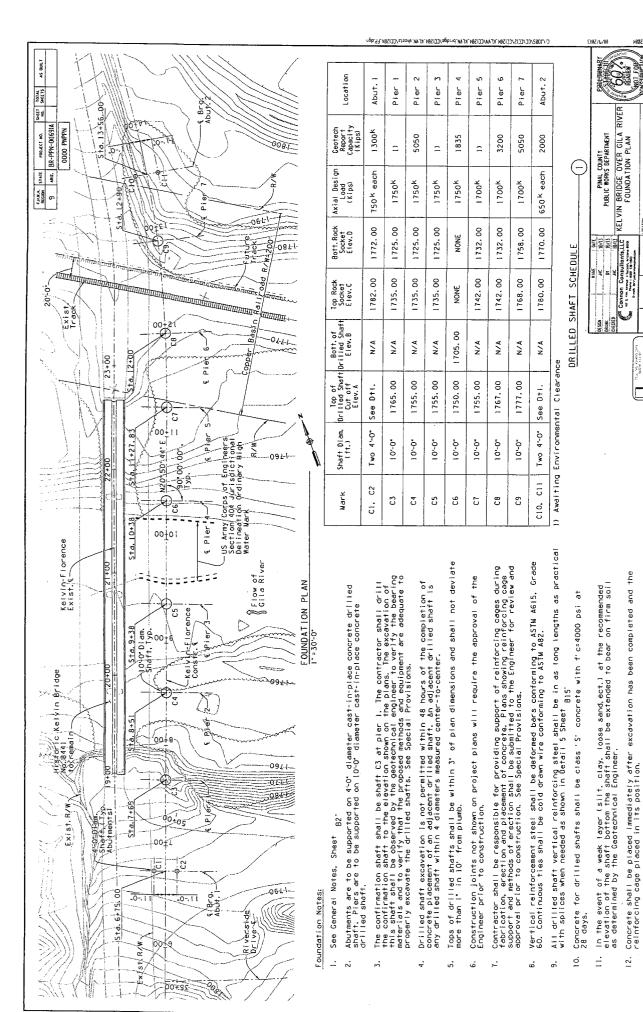
PO COLUMN TO COL C:\U008S\CC\CCIS\CCIS\CCIS\K\K\YY\CCIS\K\L\Y\\ shee\Ls\CCIS\K\X\Y\Y\\ shee\Ls\CCIS\Y\\X\\X\\ PUBLI COUNTY
KELVIN BRIDGE OVER GILA RIVER
FOUNDATION DATA
9 OF 10 10645 (ACATION FLORENCE - KELVIN HIGHWAY
PAN PRIN SB410 01C BR-PPN-01169)A LOG BORING No. B (cont.) POJE 100 0000 PN PPN SB410 01C RAMM RAMM DESIGN DEANS CHECKED 265-1100 1-R00-STAKE-IT LOG BORING NO. B (cont.) AWAITING ENVIRONMENTAL CLEARANCE TO DRILL HOLE LOG BORING NO. B

DATE NG.2 DESCRIPTION OF REVISION

18 30AU

C:/10R2/CC/CCIS/CCIS84*KFAM/CCIS84*KFAM*P-+946/CCIS84*KFAM*P+664*/CCIS84*E0384*E0384*A PERTONAL COUNTY PART COUNTY PA FANKA 511T PRAGET NO SHETT 10114 AS BART 9 AND CT NO NO SHETTS AS BART 9 AND CONDO PAPPA - 10645 | PENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHWAY | FLORENCE - KELVIN HIGHW LOG BORING No. B (cont.) 263-1100 1-800-STAKE-IT LOG BORING No. B (cont.) AWAITING ENVIRONMENTAL CLEARANCE TO DRILL HOLE LOG BORING NO. B

NO.1 | DCSCRIPTION OF DEWSTON



%01 NO: CC-1568∢

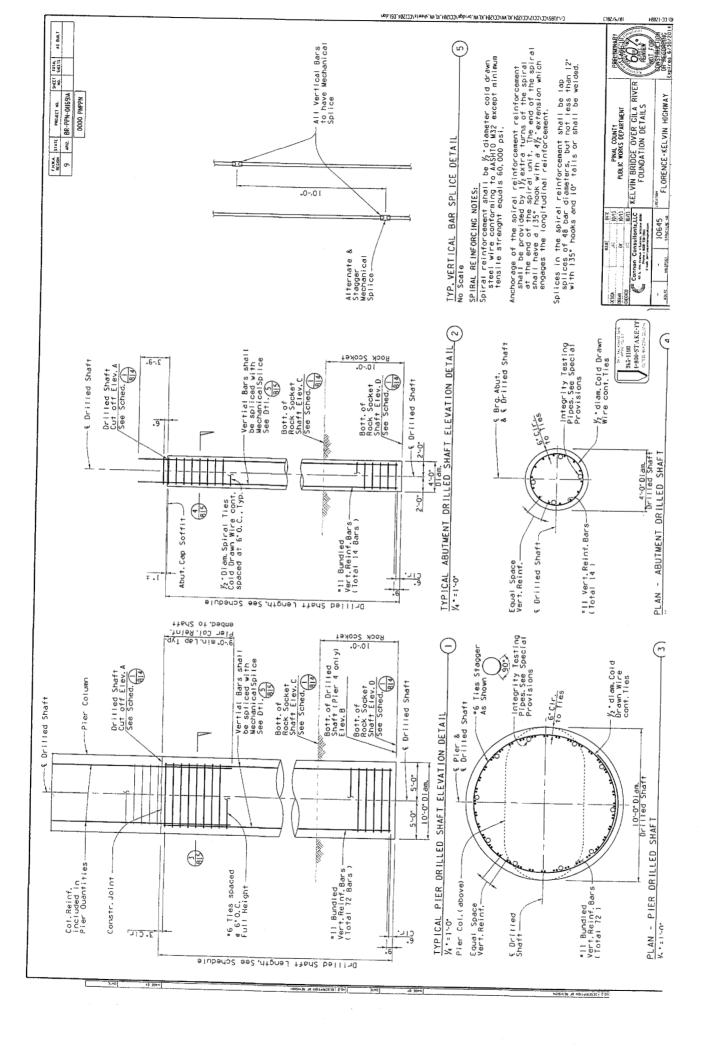
FLORENCE-KELVIN HIGHWAY
BR-PPN-0(169)A

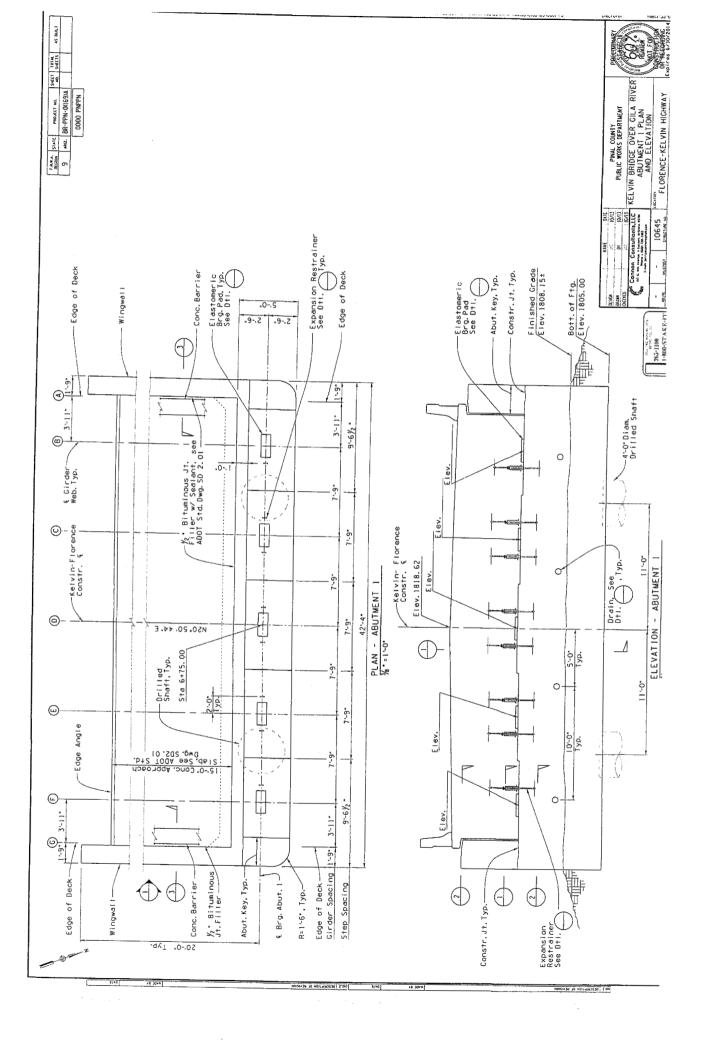
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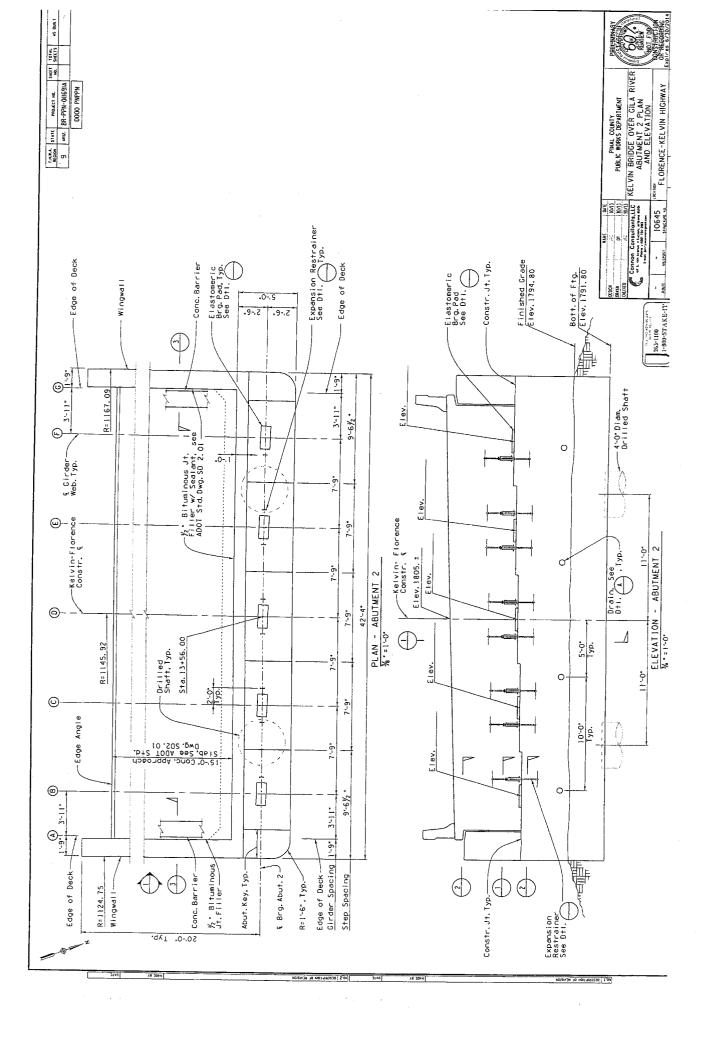
IRACS NO. 0000 PN PPN SB410 01C

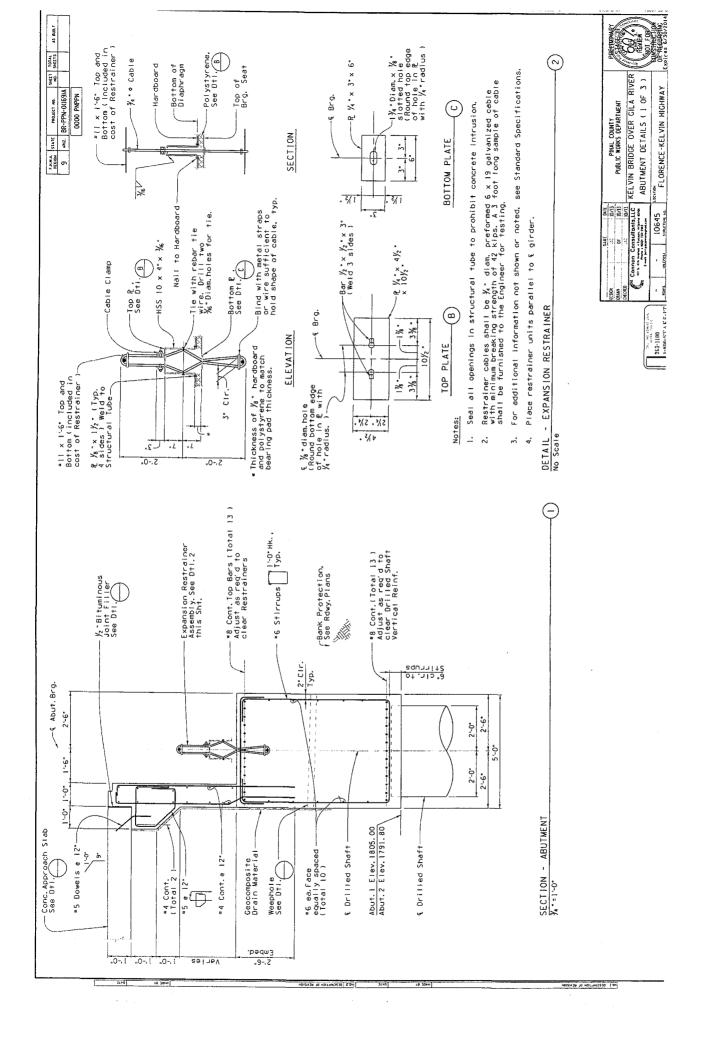
263-1100 1-800-5TAKE-IT

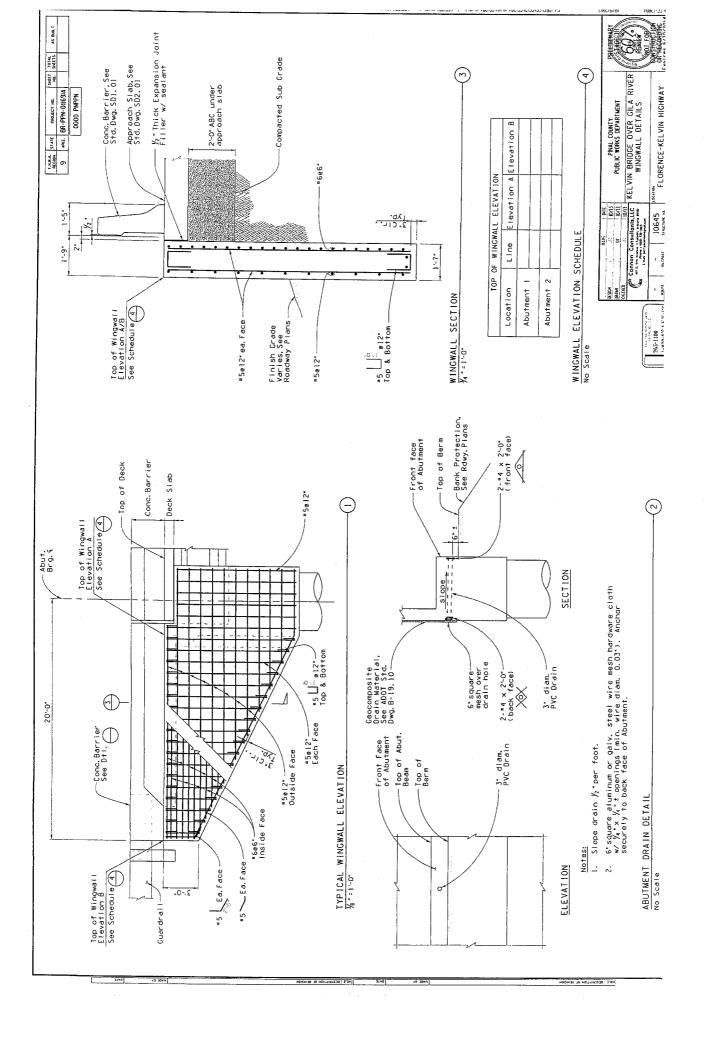
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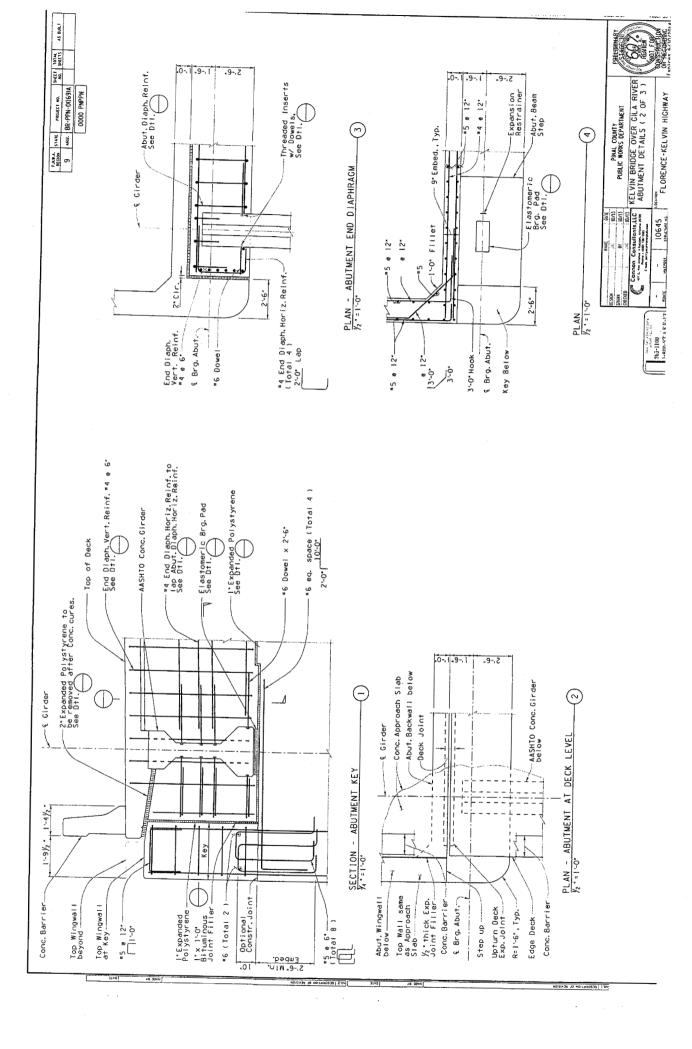


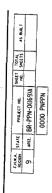


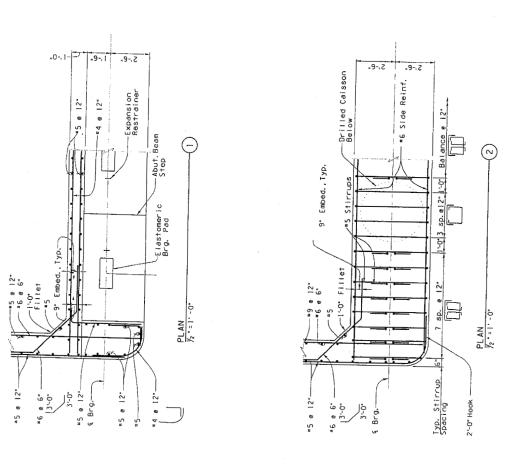




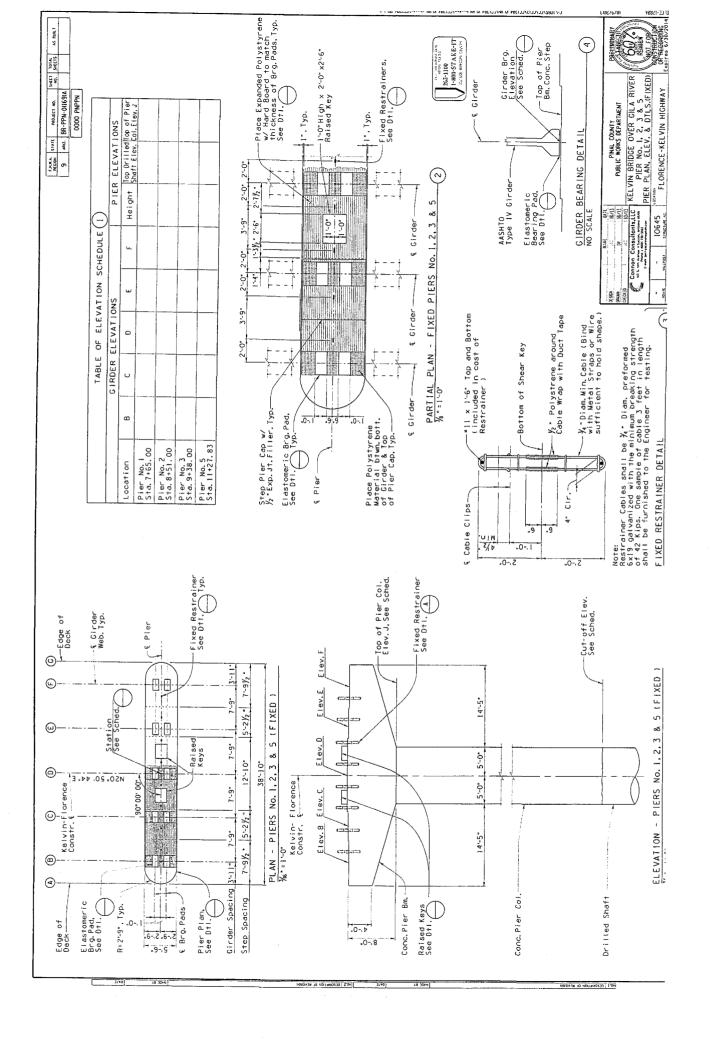


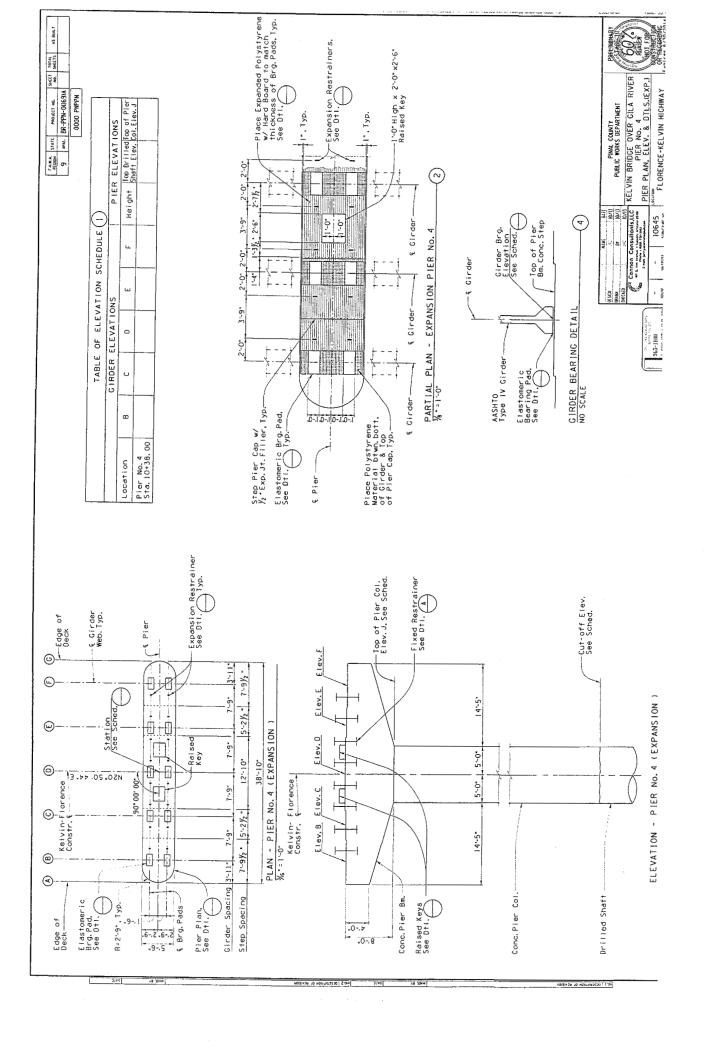


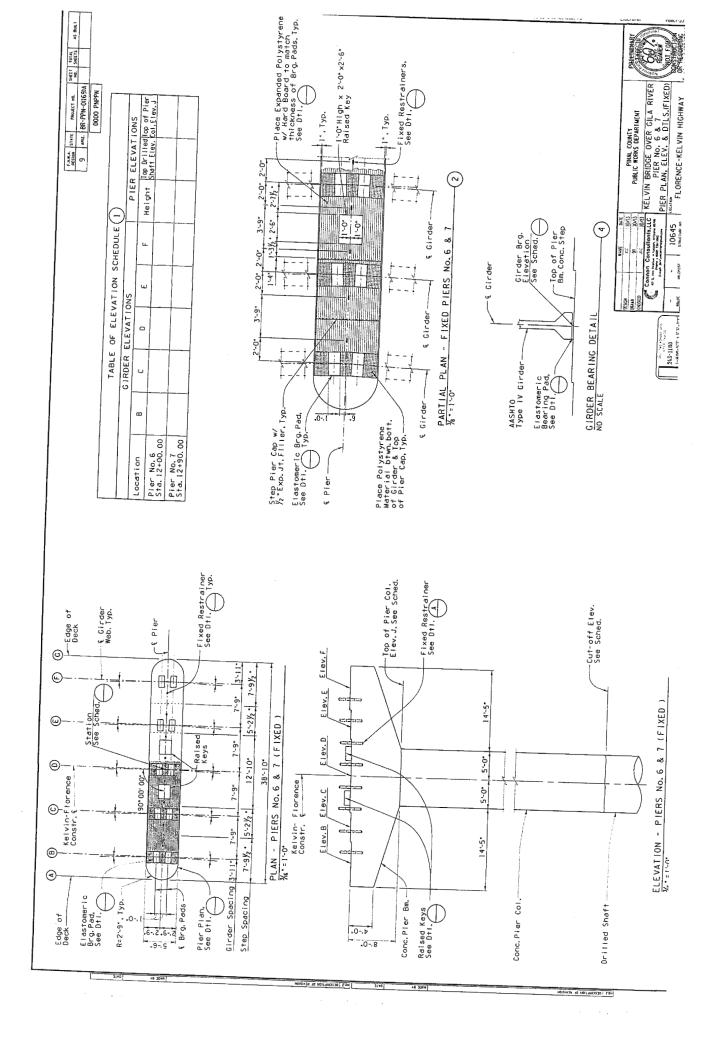


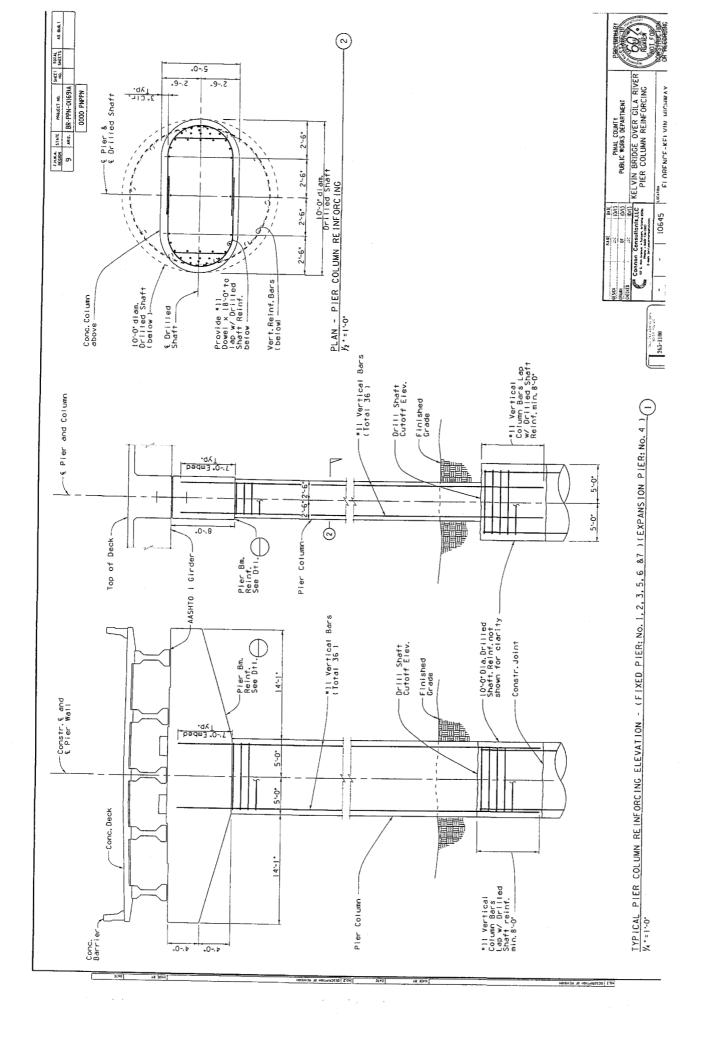


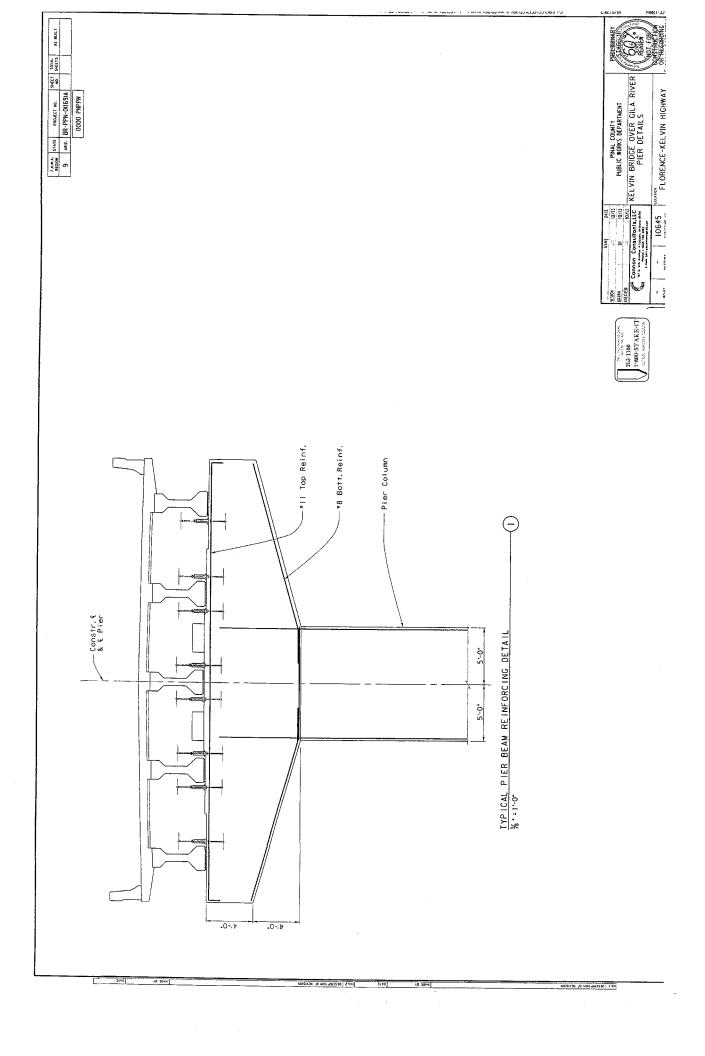
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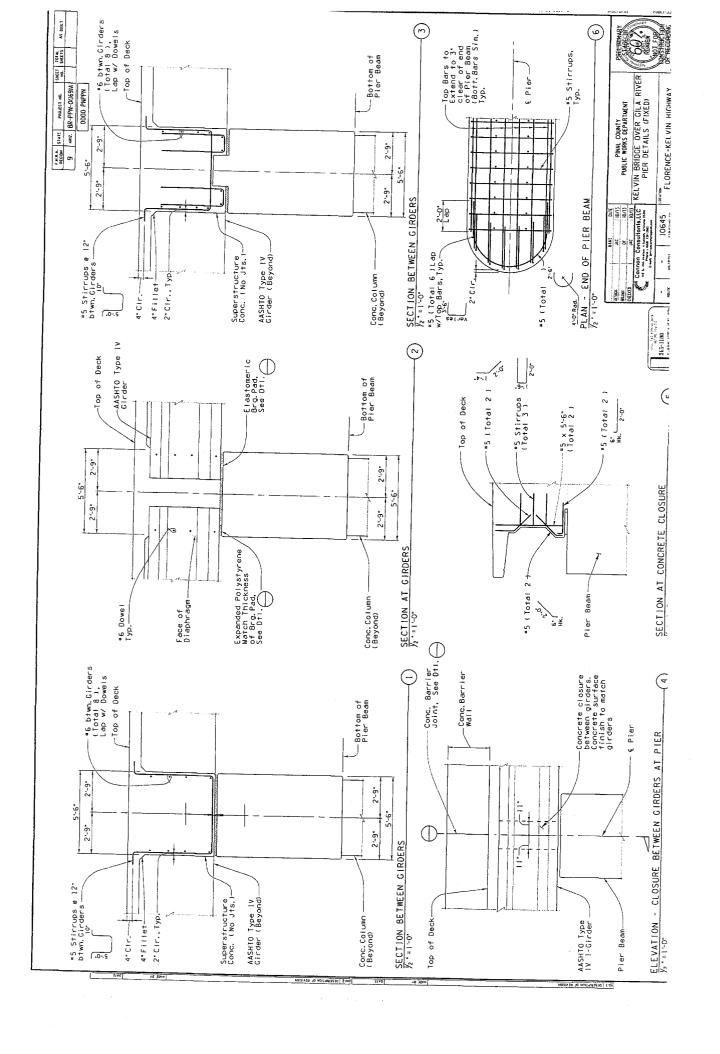


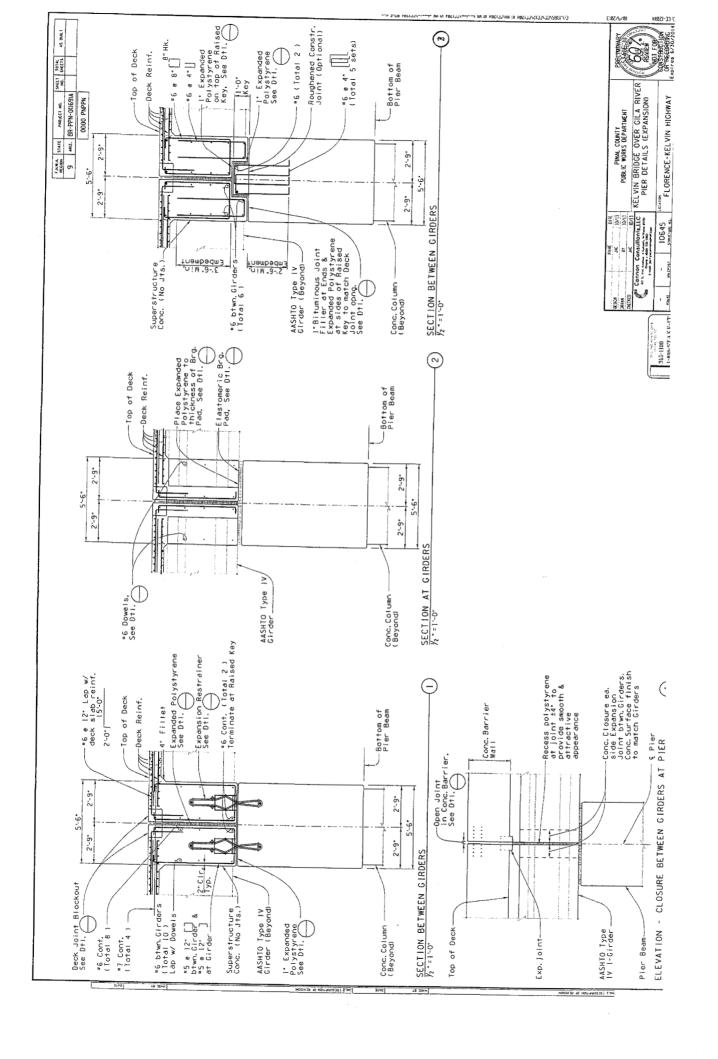


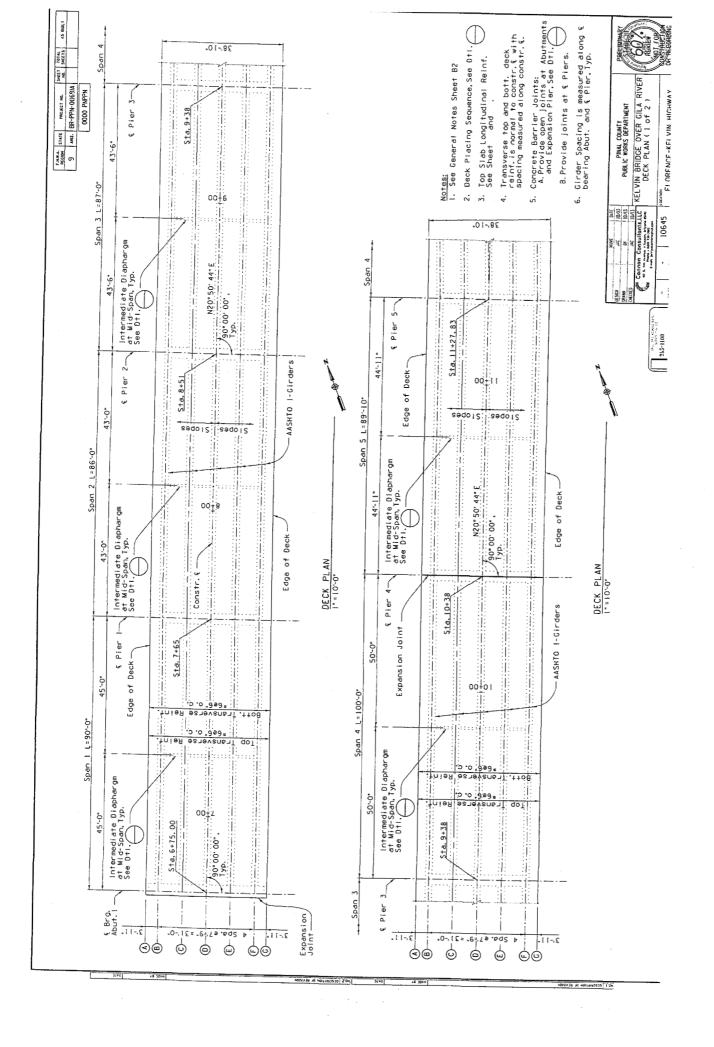


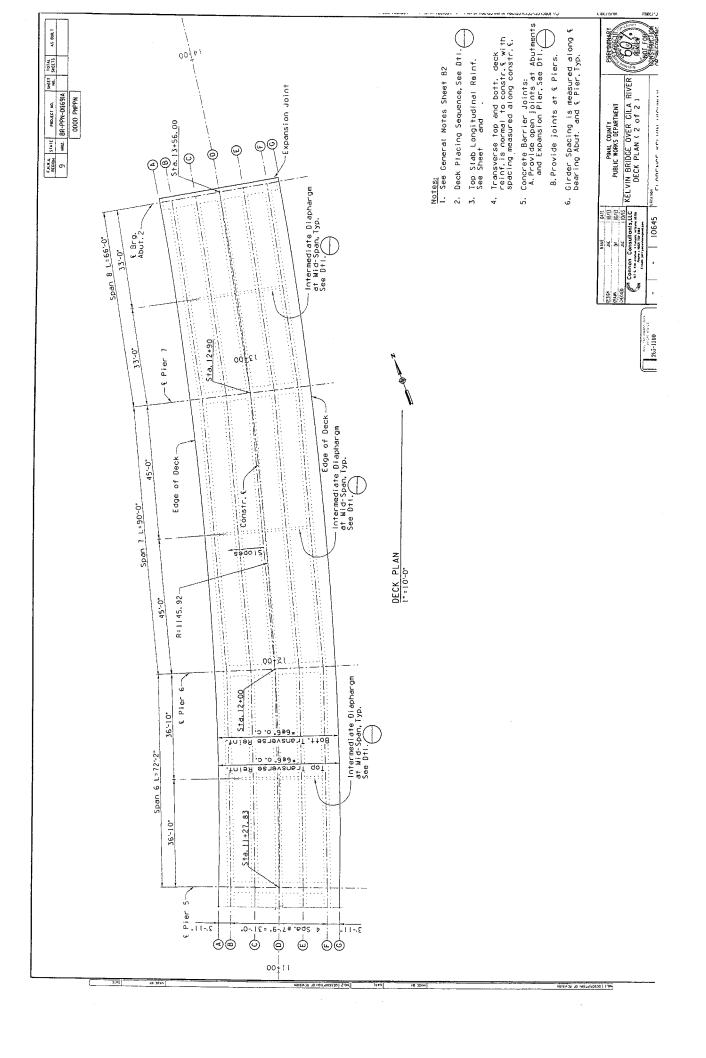


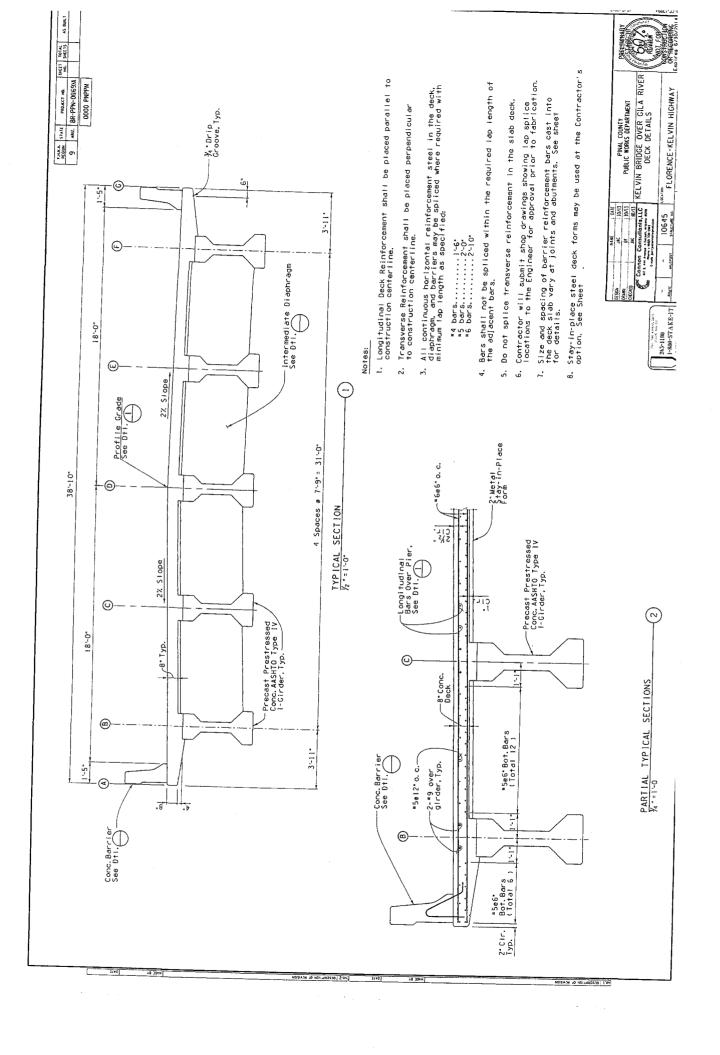


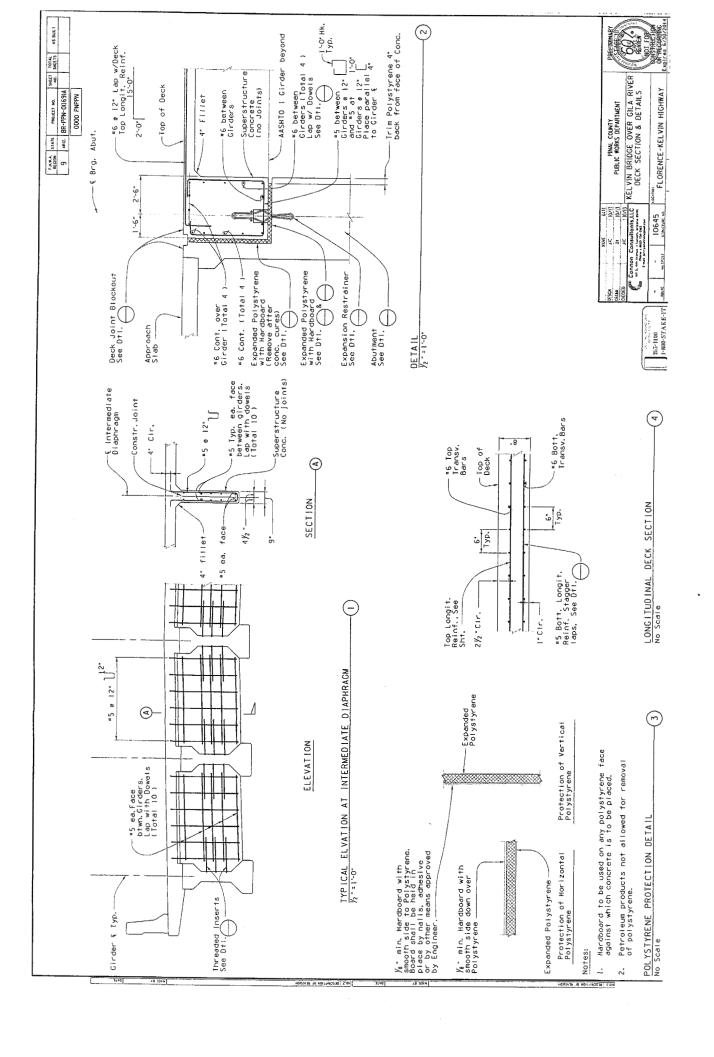


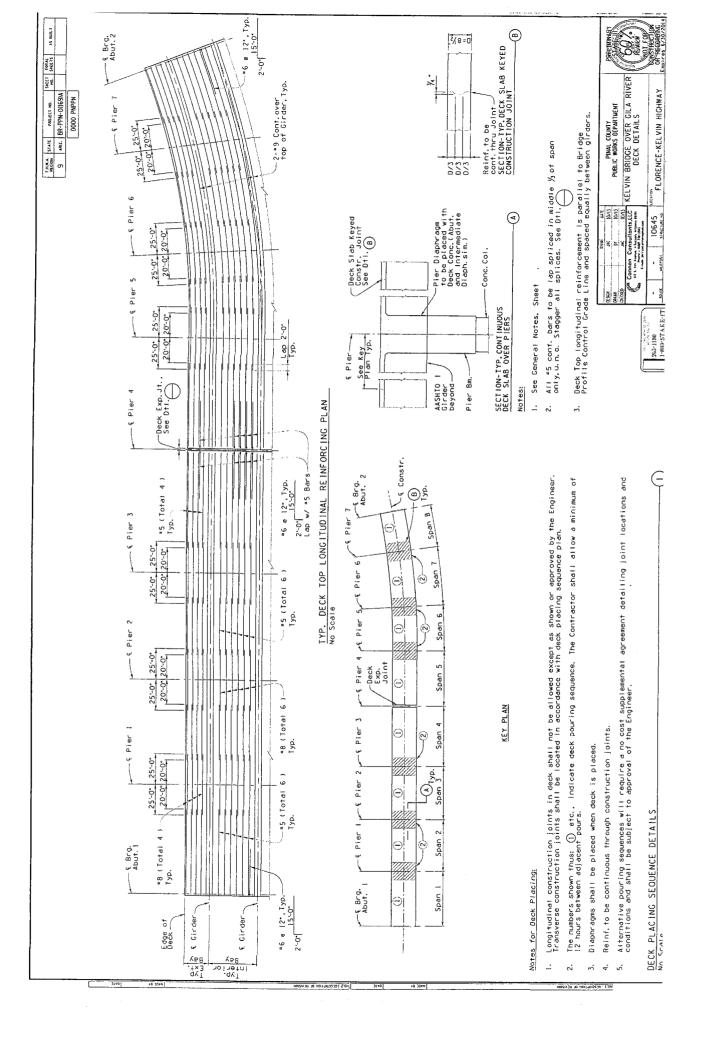


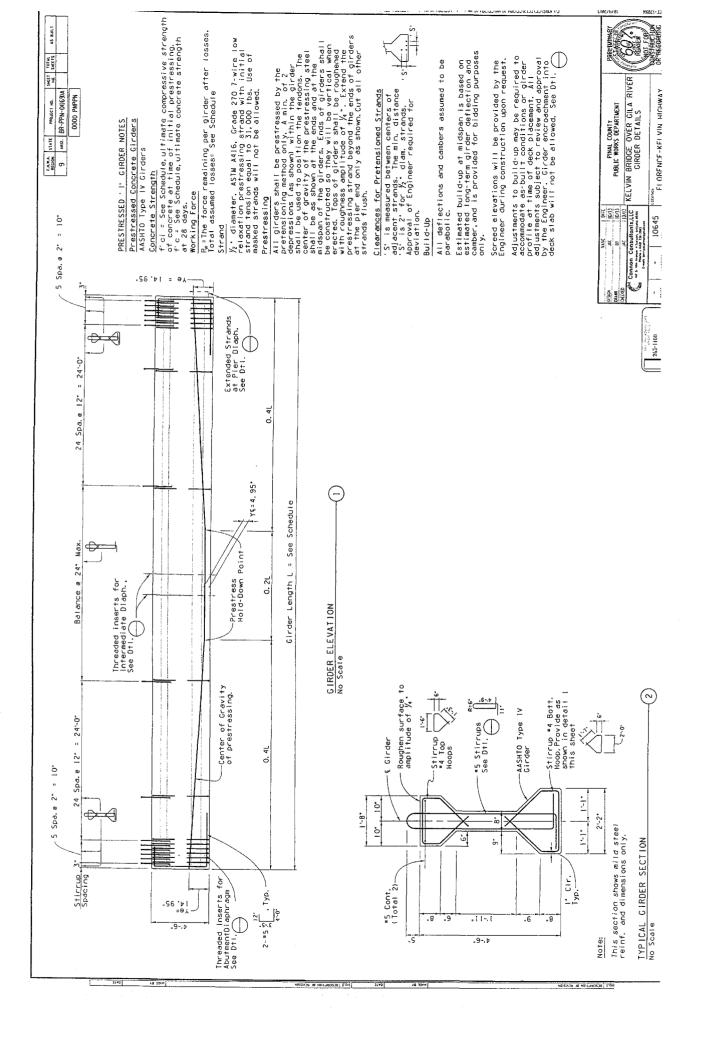


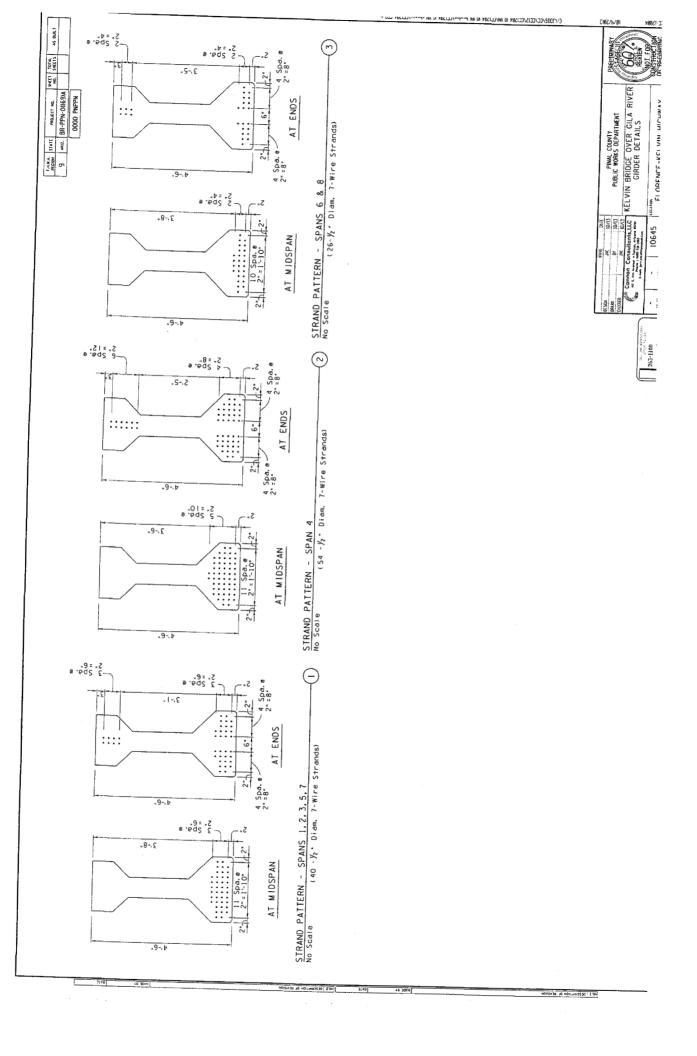


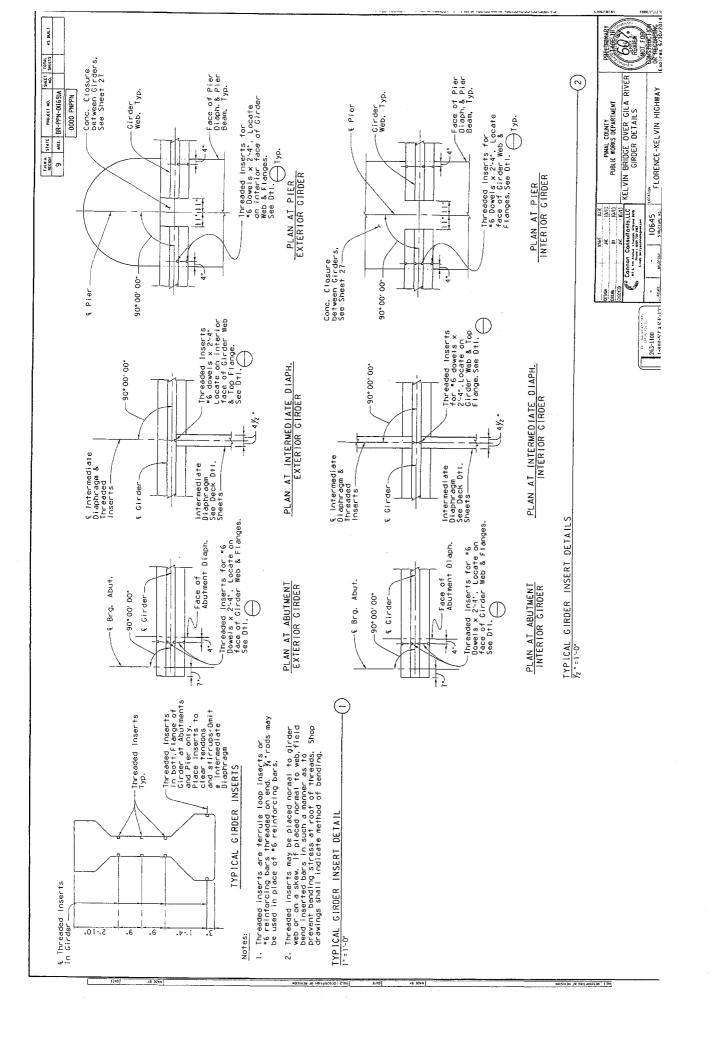


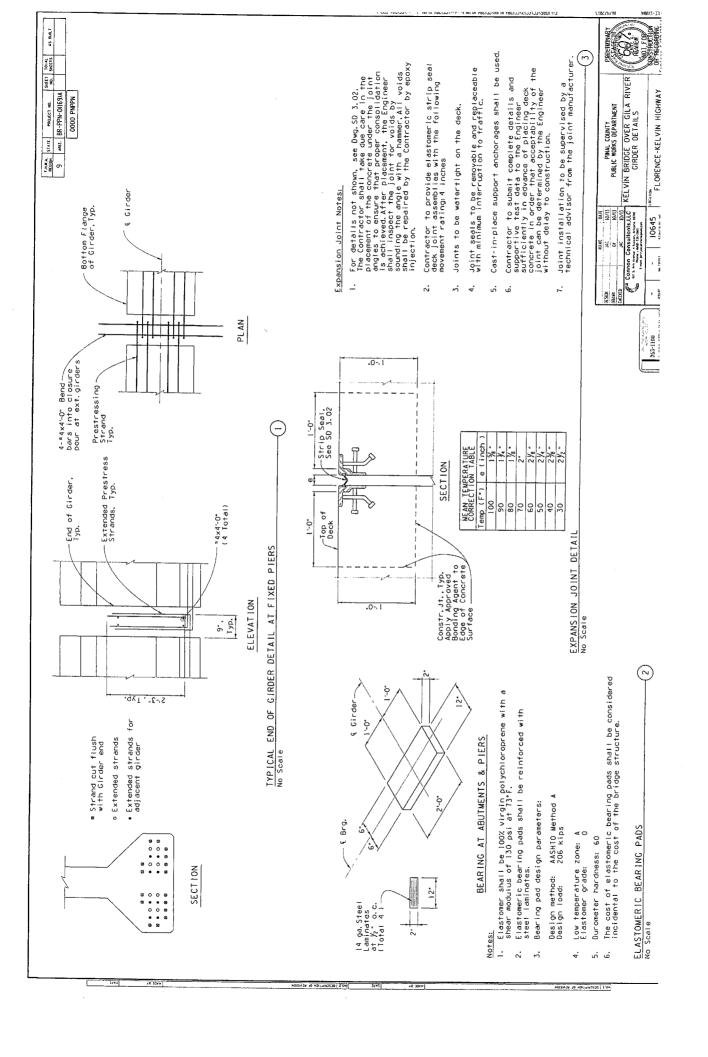


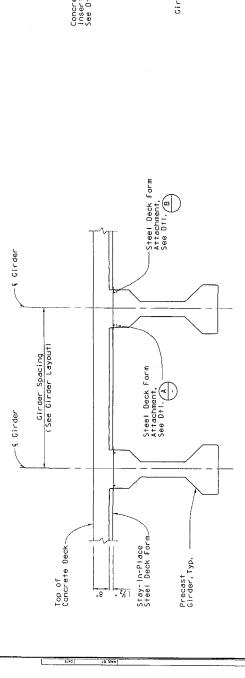




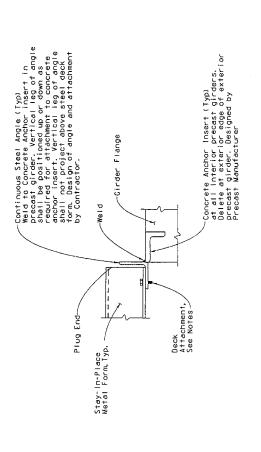


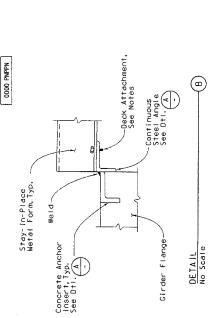






OPTIONAL STAY-IN-PLACE STEEL DECK FORM No Scale





AS BUILT

TOTAL SPECTS

FARMA. STATE PROJECT NO. 9 ARIZ. BR-PPN-0(169)A

STAY- IN-PLACE STEEL DECK FORM NOTES:

Stay-in-Place steel deck forms may be used at the Contractor's option. The elevation at the top of the girders shall be measured after erection of the girders and prior to placement of the deck forms.

The concrete insert anchors may be cast with the girder to accommodate the use of stay-in-place forms. Alternate methods of support will be considered provided the detail is adequate to support the loads, prevent leakage and allow adjustment for the varying build-up to maintain a constant deck thickness.

The deck panels and angles shall be galvanized in accordance with ASIM A123. All boils shall conform to ASIM Specification A325. All nuts, bolts, and washers shall be galvanized in accordance with the requirements of ASIM A153.

The Contractor shall submit sealed structural calculations and shop devaings showing details of the stay. The jace deck forms including the method of installation and adjustment to the Bridge Engineer form submittal must be made simultaneously with the precest girder solve deavings to ensure coordination between the girder fabrication and the stay-in-place deck form design.

The Contractor shall use due care in the placement of the girders to ensure a constant distance is maintained between girder flanges.

The Contractor shall determine the sizes of all bolts, welds, angles, etc to support the required loads,

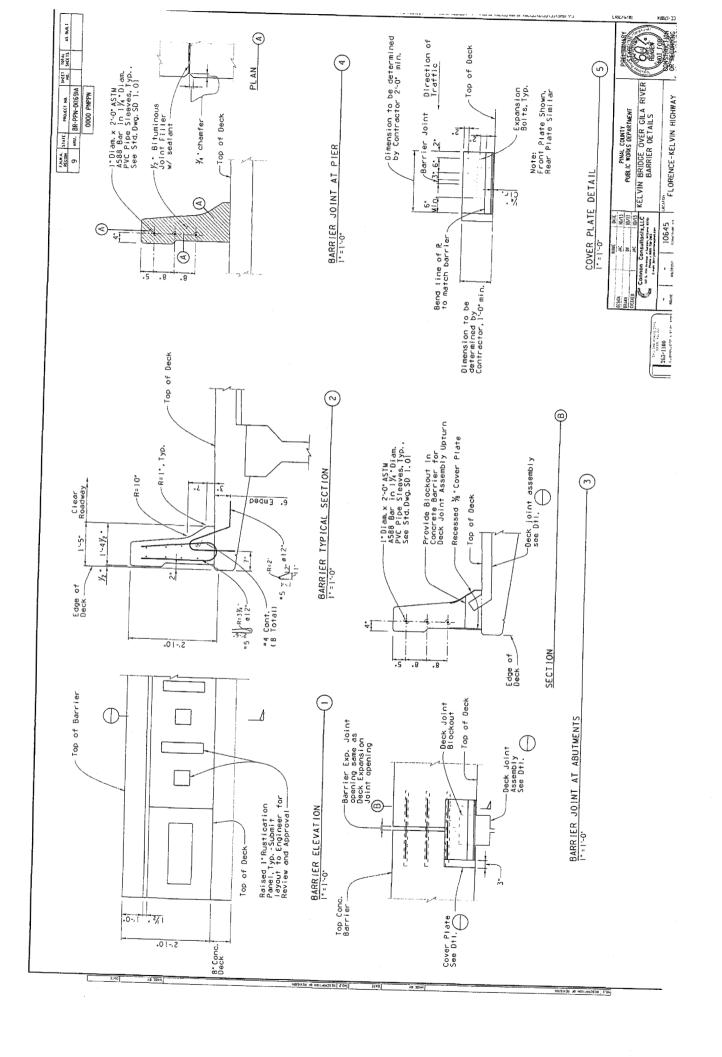
The cost of stay-in-place forms is incidental to the cost of the deck concrete.

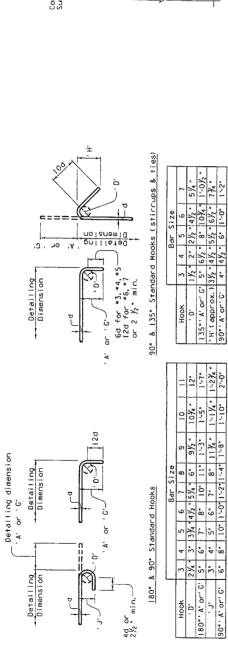
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STANDARD REINF, BAR HOOK DETAILS
No Scale

Typical for all drawings u.n.o.
 All bar bends to be cold bent.

Notes:

 Laps provided in table are to be used as minimum for lapping horizontal reinforcing, typical unless noted otherwise. 2. The minimum lap requirements are based on Grade GO reinforcing and 3.000 pais concrete for a class B splice. The lap requirements shall be anodified by the following appropriate factors except that bars smaller than "7 shall not be modified for concrete strength:

**Next and the specification of the specific speci

Bar spacing at least 6" & w/ at least 3" c.r. cover in the direction of spacing = 0.80 4,000 ps! Concrete = 0.87 100 bars lop bars

3. Top bars have more than 12° of concrete cast below them.

lap splice

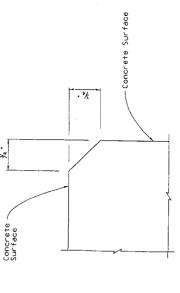
Wire tie, Typ.

40d min.

Splice

4. Lap splices shall not be less than 12°. 5. Deviation requires approval of the Englneer.

HORIZ. REINF. LAP SPLICE DETAIL
No Scale



AS BUILT

SHEET TOTAL NO. SHEETS

FEGION STATE РИОДЕСТ ИО. В РЕСТ ИО. В РЕСТ ИО. В РЕСТ ИО. В РЕРИ-ОПЕЗІА ОООО РИРРИ

TYPICAL CHAMFER DETAIL

No Scale

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